

A high-contrast, black and white photograph of a hand holding a small, white, rectangular noise meter. The meter has a logo consisting of two vertical bars and the word 'METROSONIC' below them. The background is a grainy, high-contrast image of a person's face, possibly wearing a hard hat or safety gear. The overall aesthetic is industrial and rugged.

# **Metrosonic db-3100**

***The Next Generation Metrologger***

***Miniature, Easy to Operate,  
Durable and Watertight . . .***

- ***Universal Noise Dosimeter***
- ***Integrating/Averaging and  
True Peak Sound Level Meter***
- ***Time History Monitor***

**LISTED**

# db-3100...Packed for Performance

- Simple Three Button Operation
- Pocket Sized and Lightweight
- Use as Dosimeter or Sound Level Meter
- Produces Real Time Correlated Data
- Slow, Fast and Peak Response

The db-3100 is an extremely compact and simple to operate datalogger, which monitors noise levels and provides information for evaluating hearing damage and annoyance. It is ideal for measuring to regulatory requirements.

Ready for immediate use, the unit comes set up for measuring common test conditions. A program disk is provided, **free of charge**, which allows you to set up customized applications and set the time clock.

This versatile instrument is recommended for many noise monitoring applications including:

- Occupational
- Environmental
- Transportation
- Industrial
- Community
- Research
- Machinery
- Educational
- Plant Surveys

In addition to all of these uses, the db-3100 is a very cost-effective tool for managing a hearing conservation program.

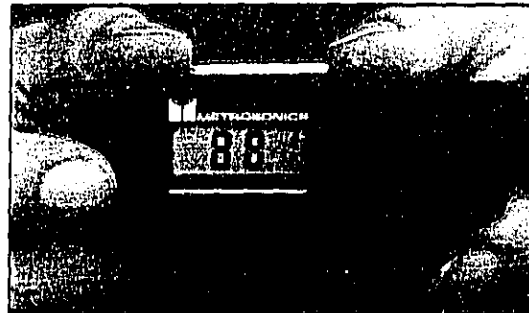
## Universal Noise Dosimeter

Ideal for worker exposure monitoring, the db-3100 measures and calculates both actual dose and projected dose for various work shift lengths. Calculations can be on the basis of 3, 4, 5 or 6 dB exchange rates at any criterion level, and with up to two cutoffs. Since these may be set by the user, the instrument will never become obsolete if standards change. In addition, the amount of time the noise exceeds a user-selected level is recorded.

## Multi-Purpose Integrating Sound Level Meter

The db-3100 provides a direct LCD display of SPL, Lavg, Lmax, Lpeak, Dose, Projected Dose and Test Duration.

An exceptional feature of the db-3100 is the ability to monitor SPL, store the maximum value (Lmax), and generate the time variant Lavg, SEL and the statistical Ln designator. A separate circuit stores the unweighted peak noise level.



## Easy to Operate

Three pushbuttons make the db-3100 much quicker and simpler to operate than any other instrument of its kind on the market today. By simply pressing individual buttons, users can turn the logger on and off, start and stop logging, and create output reports. Pressing the buttons in groups allows viewing of test statistics, entering calibration or security modes, and clearing all data.

## Pocket Sized & Rugged

The db-3100 is compact and lightweight for ultimate comfort and convenience. For occupational measurements, it is one of the smallest monitors available, and it can be slipped into a worker's pocket or clipped onto a belt, so as not to interfere with work activities.

Extremely rugged, the db-3100 is watertight and can withstand harsh conditions, such as rough handling or splashing liquids. The aluminum case and special circuit design ensure data integrity by protecting against electrical interferences. Also, the db-3100 is **UL Listed** as intrinsically safe for use in hazardous environments.

## Advanced Signal Processing

Sound over the continuous range of 40 to 140 dB is transduced by a miniature ceramic microphone. Two different circuits are used to capture the signal; an unweighted true peak hold circuit (Lpk), and a user-selectable A or C weighted true RMS circuit, complying with ANSI and IEC standards. The detector time constant can be set for either "Fast" or "Slow" response.

## Security Codes

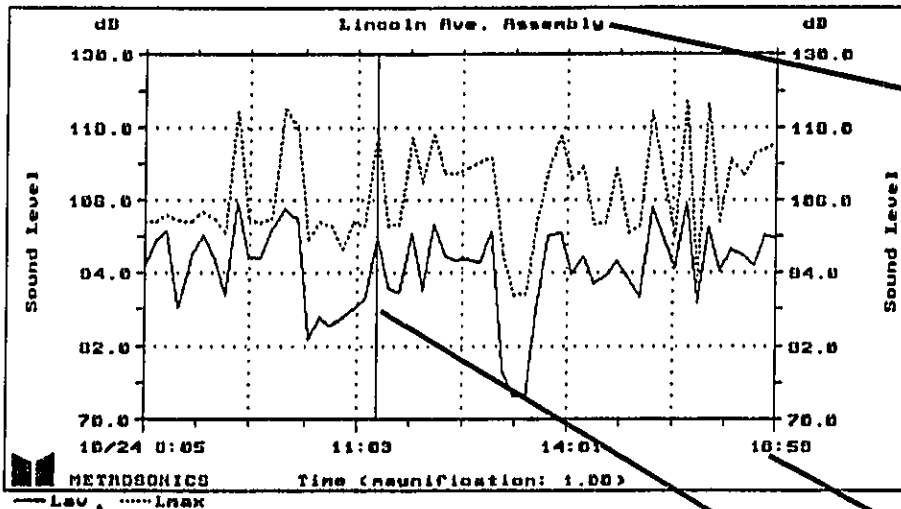
The unit can be put into secure mode, by simply pressing 2 buttons simultaneously; there is no need for a cover plate. The secure mode prevents the wearer from tampering with the unit and viewing data.

**SAMPLE  
GRAPHS AND REPORTS  
FROM  
METROSONICS, INC.  
db-3100  
METROLOGGER**

## Values of Average and Maximum Sound Level For an Entire Eight Hour & 55 Minute Test

File Name.....31006  
 Logger.....db-3100 SN 1068  
 Test Location....Lincoln Ave. Assembly  
 Employee Name....William R. Ross  
 Employee Number...106-43-1394  
 Department.....Maintenance & Repair  
 Comment Field 1...Filter Replacement Dept41  
 Comment Field 2...Ass'y Line operational  
 Numeric Code #1...41    #2...    #3...    #4...    #5...

TEST IDENTIFICATION  
FOR ARCHIVING &  
DATA RETRIEVAL



GRAPHS  
CAN BE  
SELECTIVELY  
TITLED

DATE &  
TIME EVERY  
4TH  
DIVISION

SCAN LINE -  
DISPLAYS  
CURSOR  
VALUES

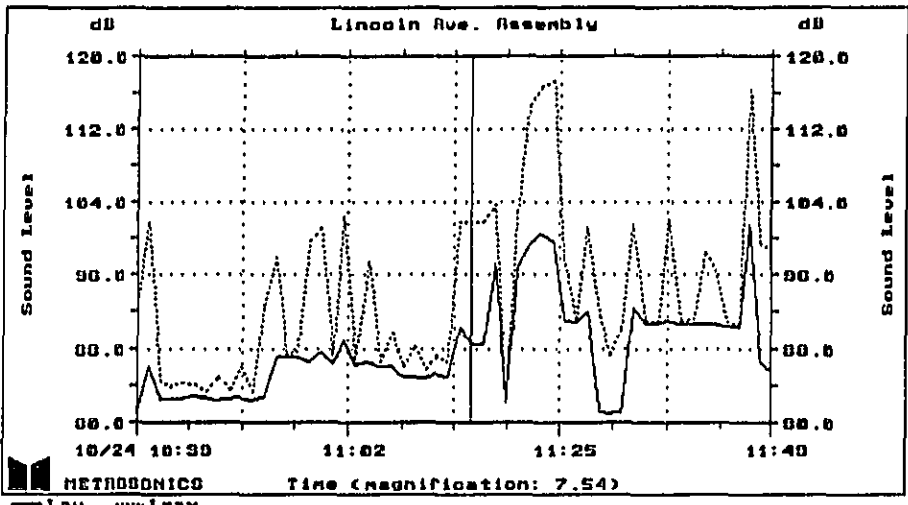
SCAN LINE: 10/24/90 11:10:00    Lavg = 80.6dB    Lmax = 101.0dB

AVERAGE SOUND LEVEL - SOLID LINE  
MAXIMUM SOUND LEVEL - DOTTED LINE

NOTE: GRAPHS ARE GENERATED  
USING ms-935 METROSOFT

**Values of Average and Maximum Sound Level  
During a 1 Hour & 10 Minute Portion of the Test  
(Entire Test Expanded 7.54 Times)**

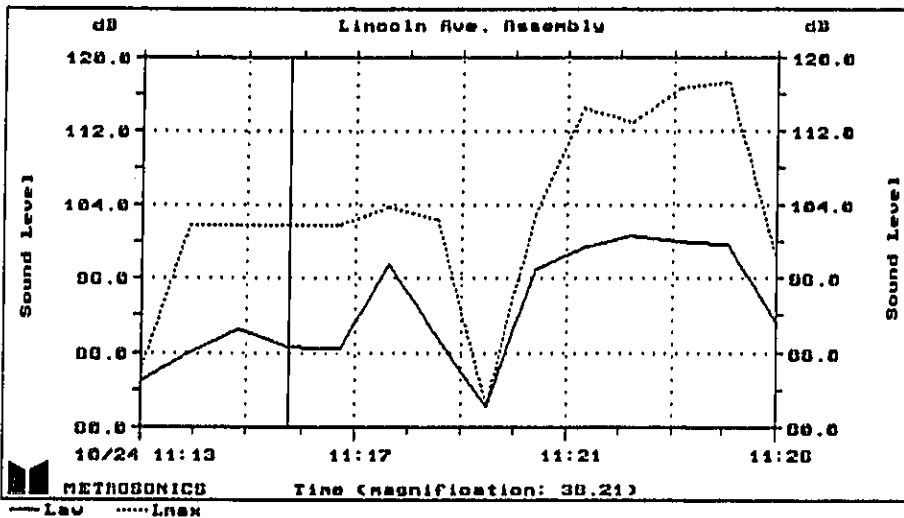
File Name.....31006  
 Logger.....db-3100 SN 1068  
 Test Location....Lincoln Ave. Assembly  
 Employee Name....William R. Ross  
 Employee Number...106-43-1394  
 Department.....Maintenance & Repair  
 Comment Field 1...Filter Replacement Dept41  
 Comment Field 2...Ass'y Line Operational  
 Numeric Code #1...41    #2...    #3...    #4...    #5...



SCAN LINE: 10/24/80 11:10:00    Lav = 80.0dB    Lmax = 101.0dB

**Values of Average and Maximum Sound Level  
During a 13 Minute Portion of the Test  
(Entire Test Expanded 38.21 Times)**

File Name.....31006  
 Logger.....db-3100 SN 1068  
 Test Location....Lincoln Ave. Assembly  
 Employee Name....William R. Ross  
 Employee Number...106-43-1394  
 Department.....Maintenance & Repair  
 Comment Field 1...Filter Replacement Dept41  
 Comment Field 2...Ass'y Line Operational  
 Numeric Code #1...41 #2... #3... #4... #5...



SCNN LINE: 10/24/80 11:10:00 Lav = 80.6dB Lmax = 101.0dB

## Overall Statistics Report for an 8 Hour & 55 Minute Test

"File Name.....31006"  
 "Test Location....Lincoln Ave. Assembly"  
 "Employee Name....William R. Ross"  
 "Employee Number...106-43-1394"  
 "Department.....Maintenance & Repair"  
 "Comment Field 1...Filter Replacement Dept41"  
 "Comment Field 2...Ass'y Line Operational"  
 "Numeric Code #1...41 #2... #3... #4... #5..."

TEST IDENTIFICATION  
FOR ARCHIVING &  
DATA RETRIEVAL

METROSONICS db-3100 SN 1068 V1.3  
 REPORT PRINTED 11/16/90 @ 10:36:49

INSTRUMENT  
IDENTIFICATION

DOUBLING RATE: 5dB      FILTER: A WGT  
 DOSE CRITERION: 80dB    RESPONSE: SLOW  
 PRE-CALIBRATION TIME: 10/24/90 @ 7:50:12  
 PRE-CALIBRATION RANGE: 41.0dB To 141.0dB  
 POST-CALIBRATION TIME: 10/24/90 @ 17:05:37  
 POST-CALIBRATION RANGE: 41.0dB To 141.0dB

DATE & TIME OF READOUT

PROGRAMMED TEST PARAMETERS

FIELD CALIBRATION  
TRACEABILITY

"Calibrator Type & Serial #...Metrosonica cl-304 sn3298"

"Calibrator Calibration Date..August 17, 1990"

TEST BEGAN 10/24/90 @ 8:05:00  
 TEST LENGTH: 0 DAYS 8:55:00  
 TEST ENDED 10/24/90 @ 16:59:59  
 TEST INTERRUPTIONS: 1

TEST STARTING TIME  
& LENGTH OF TEST

Lav = 92.3dB    Lav ( 80)= 92.3dB  
 SEL = N/A      Lav ( 90)= 90.6dB  
 TWA = 93.1dB  
 TWA ( 80)= 93.0dB    TWA( 90)= 91.4dB  
 Lmax =122.3dB ON 10/24/90 @ 15:37:13  
 Lpk =141.6dB ON 10/24/90 @ 8:13:06  
 TIME OVER 115dB: 0 DAYS 0:00:59.68

ALL  
CURRENTLY  
REQUIRED  
COMPLIANCE  
DATA

10 HR DOSE ( 80dB CUTOFF)=161.10%  
 10 HR PROJ. DOSE ( 80dB CUTOFF)=180.67%  
 10 HR DOSE ( 90dB CUTOFF)=128.76%  
 10 HR PROJ. DOSE ( 90dB CUTOFF)=144.40%

## Tabular Time History Report for the First 36 Intervals of an 8 Hour & 55 Minute Test

"TIME HISTORY REPORT"

TEST  
IDENTIFICATION

"# OF PERIODS: 535    MODE: CONTINUOUS  
"PERIOD LENGTH: 0:01:00  
"TIME HISTORY CUTOFF: 80dB  
"Ln(1): 10.0%    Ln(2): 99.9%

EXCEEDANCE  
VALUES

"DATE: 10/24/90

"INT"	"TIME"	"LAV"	"Lmx"	"Lpk"	"L1"	"L2"
1	" 8:05:00"	92.6	101.3	117.2	96	84
2	" 8:06:00"	95.0	97.2	118.6	95	88
3	" 8:07:00"	95.6	96.5	126.5	95	91
4	" 8:08:00"	92.4	96.6	129.8	95	82
5	" 8:09:00"	88.4	90.8	123.2	93	80
6	" 8:10:00"	91.0	95.6	123.2	92	78
7	" 8:11:00"	90.3	98.1	133.0	93	81
8	" 8:12:00"	95.9	102.3	140.8	99	78
9	" 8:13:00"	96.0	102.5	141.6	100	77
10	" 8:14:00"	84.3	92.9	121.3	87	79
11	" 8:15:00"	87.4	96.4	126.9	91	81
12	" 8:16:00"	84.8	101.4	"UNR"	85	80
13	" 8:17:00"	88.7	102.0	112.4	92	81
14	" 8:18:00"	90.2	101.9	"UNR"	90	87
15	" 8:19:00"	87.4	100.6	111.4	88	80
16	" 8:20:00"	86.9	101.7	112.4	91	79
17	" 8:21:00"	79.1	92.3	119.0	85	79
18	" 8:22:00"	95.6	102.3	112.8	98	86
19	" 8:23:00"	100.3	102.6	"UNR"	102	98
20	" 8:24:00"	98.7	99.2	"UNR"	99	98
21	" 8:25:00"	91.5	100.6	"UNR"	98	80
22	" 8:26:00"	90.1	99.4	116.7	95	80
23	" 8:27:00"	97.3	103.0	118.8	102	90
24	" 8:28:00"	101.9	103.7	115.6	103	93
25	" 8:29:00"	92.3	102.4	115.6	99	87
26	" 8:30:00"	86.7	100.1	"UNR"	88	81
27	" 8:31:00"	83.8	100.1	111.9	85	79
28	" 8:32:00"	93.8	102.2	"UNR"	102	79
29	" 8:33:00"	87.7	99.0	"UNR"	88	80
30	" 8:34:00"	86.4	102.7	"UNR"	89	79
31	" 8:35:00"	82.1	82.3	"UNR"	82	82
32	" 8:36:00"	89.2	102.8	109.9	96	82
33	" 8:37:00"	82.9	83.2	"UNR"	83	82
34	" 8:38:00"	84.6	100.1	109.9	83	82
35	" 8:39:00"	85.6	100.3	118.2	88	82
36	" 8:40:00"	83.1	91.1	116.4	83	82

"UNR" (UNDER) IS  
PRINTED WHENEVER  
THE PEAK WAS LESS  
THAN 109 dB

DATA IN  
1 MINUTE  
INCREMENTS  
  
NOTE: TIME HISTORY  
INCREMENTS ARE  
COMPLETELY  
SELECTABLE FROM  
1 SECOND TO  
24 HOURS



## Graphical Time History Report for the First 11 Intervals of an 8 Hour & 55 Minute Test

\*\* TIME HISTORY REPORT \*\*

TEST  
IDENTIFICATION

# OF PERIODS: 535    MODE: CONTINUOUS  
 PERIOD LENGTH: 0:01:00  
 TIME HISTORY CUTOFF: 80dB  
 Ln(1): 10.0%    Ln(2): 99.9%

2 SELECTED  
EXCEEDANCE LEVELS

INT#	START TIME	Lav ET	Lmax L1	Lpk L2
1	10/24/90 8:05:00	92.6 0:01:00	101.3 96	117.2 84
2	10/24/90 8:06:00	95.0 0:01:00	97.2 95	118.6 88
3	10/24/90 8:07:00	95.6 0:01:00	96.5 95	126.5 91
4	10/24/90 8:08:00	92.4 0:01:00	96.6 95	129.8 82
5	10/24/90 8:09:00	88.4 0:01:00	98.8 93	123.2 80
6	10/24/90 8:10:00	91.0 0:01:00	95.6 92	123.2 78
7	10/24/90 8:11:00	90.3 0:01:00	98.1 93	133.0 81
8	10/24/90 8:12:00	95.9 0:01:00	102.3 99	140.8 78
9	10/24/90 8:13:00	96.0 0:01:00	102.5 100	141.6 77
10	10/24/90 8:14:00	84.3 0:01:00	92.9 87	121.3 79
11	10/24/90 8:15:00	87.4 0:01:00	96.4 91	126.9 81

FOR EACH  
INTERVAL:  
 - INTERVAL  
NUMBER  
 - TIME  
INTERVAL  
STARTED  
 - TIME  
VALID  
DATA  
TAKEN  
 - Lav, Lmax,  
Lpk  
 - 2 EXCEED-  
ANCE  
LEVELS

\* +  
 \*\*  
 \*\*  
 \* +  
 \* +  
 \* +  
 \* +  
 \* +  
 \* +  
 \* +

GRAPHIC  
REPRESENTATION  
OF Lav & Lmax

## Amplitude Distribution Report for an 8 Hour & 55 Minute Test

\*\* AMPLITUDE DISTRIBUTION REPORT \*\*

TEST  
IDENTIFICATION

TOTAL SAMPLES = 513600

TOTAL SAMPLES LOGGED

dB	SAMPLES	% OF TOTAL
63	3	0.00
64	5	0.00
-----		
74	284	0.06
75	303	0.06
76	7367	1.43
77	6186	1.20
78	4693	0.91
79	12659	2.46
80	33401	6.50
81	26041	5.07
82	46030	8.96
83	16886	3.29
84	27818	5.42
85	23995	4.67
86	37390	7.28
87	22149	4.31
88	13205	2.57
89	20950	5.64
90	31926	6.22
91	25221	4.91
92	21600	4.21
93	18912	3.68
94	22815	4.44
95	17667	3.44
96	11596	2.26
-----		
121	35	0.01
122	6	0.00

NUMBER OF SAMPLES  
IN EACH BIN

GRAPHIC REPRESENTATION  
OF SAMPLES IN EACH BIN

PERCENT OF SAMPLES  
IN EACH BIN

Ln( 0.0 ) = 122dB  
Ln(10.0) = 97dB  
Ln(50.0) = 87dB  
Ln(99.9) = 74dB

4 SELECTED  
EXCEEDANCE  
VALUES

	NO CUTOFF	80.0dB CUTOFF	90.0dB CUTOFF
Leq	95.6dB	95.6dB	95.4dB
Ldod	93.2dB	93.2dB	92.4dB
Loq(6)	91.1dB	91.0dB	88.4dB

AVERAGE SOUND  
LEVEL FOR VARIOUS  
EXCHANGE RATES  
AND CUTOFFS

**METROSONICS, INC., P.O. BOX 23075, ROCHESTER, NEW YORK, 14692**

**TEL (716) 334-7300, FAX (716) 334-2635, TELEX 853348**

## Directory of Records by Exposure for Hearing Conservation Program Management

DIRECTORY LISTING FOR C:  
Lav(w/o cutoff 1)>=85.0

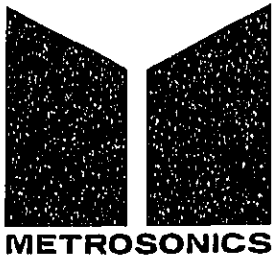
PAGE 1

NO.	FILENAME		S/N	DATE	TIME	EMPLOYEE NAME						
	TWA	Lav	Lmax	Lpk	CD 1	CD 2	CD 3	CD 4	CD 5	DEPARTMENT	COMMENT FIELD 2	
9	31009		1246	10/25/90	9:48:11							
				Lincoln Ave. Assembly 079-61-0392 Panel Ass'y, Air Driver							Ronald R. DelGiorno Mechanical Ass'y Tool#: A-37-4993f	
	83.8	92.4	101.0	128.7	406	0717						
7	31007		1164	10/25/90	9:50:50							
				Lincoln Ave. Assembly 164-35-9271 Weld Grinding Dept. 406							Jennifer A. Richardson Mechanical Ass'y Tool#: A-53-1875b	
	90.1	97.4	106.6	133.6	406	0717						
4	31005		1068	10/25/90	8:05:00							
				Lincoln Ave. Assembly 106-43-1394 Filter Replacement Dept41							William R. Ross Maintenance & Repair Ass'y Line Operational	
	93.1	92.3	122.3	141.6	41	0717						
3	31004		1068	5/07/90	12:32:08							
				Lincoln Ave. Assembly 164-35-9271 Pump Replacement, Dept406							Peter A. MacDougall Maintenance & Repair Ass'y Line Operational	
	77.7	93.6	106.0	124.5	0406	0717						
1	31002		1064	11/21/90	10:36:35							
				Lincoln Ave. Assembly 117-74-0833 Valve Inspection Dept 68							Douglas Hughes Maintenance & Repair Ass'y Line Operational	
	91.2	94.6	107.7	132.4	68	0717						

NOTE: ms-035 CAN SEARCH EXPOSURE DATA BY TWA, L<sub>AV</sub>, L<sub>MAX</sub>, L<sub>PEAK</sub>

**METROSONICS, INC., P.O. BOX 23075, ROCHESTER, NEW YORK, 14602**

**TEL (716) 334-7300, FAX (716) 334-2935, TELEX 053340**



**METROSONICS**

# INSTRUMENTATION PRICE LIST

**EFFECTIVE SEPTEMBER 1992  
(SUPERSEDES PREVIOUS LISTS)**

## TERMS AND CONDITIONS

### Prices

All prices in this list and in supplementary sheets issued are FOB Rochester, New York and include standard packing in accordance with domestic practice. Export packing and special deliveries are extra. Prices and specifications are subject to change without notice and we reserve the right to discontinue any items without notice. Orders will be invoiced at the prevailing price at the time of order receipt.

### Shipping and Packing

In line with general practice, all goods are shipped at the purchaser's risk. Claims for damage in transit must be filed with the carrier involved. Shipments should be carefully examined on arrival before signing a receipt. A signed bill of lading or delivery ticket with no exceptions noted will indicate the count, description and condition is acceptable.

Please specify the method of shipment and/or routing desired. If you do not specify, we will use our best judgment in selecting method and route. Also in the absence of instructions, the Company reserves the right to insure a shipment and add the cost of such insurance to the transportation charge. On Export Orders, we reserve the right to utilize our Forwarder, if, in our opinion, the shipment can be expedited. Our standard packing is suitable for Domestic and Air Freight Export Shipments. Export Crating is available for Ocean Shipments. The charge for Export Crating will be determined for individual orders.

### Payments

Domestic Customers - Payment terms for United States customers with established credit are 30 days in accordance with standard commercial terms. Others should submit a check with order.

Overseas Customers - Payment for customers outside of the

United States is either by cash or a confirmed Irrevocable Letter of Credit through a United States bank. Sight draft or other types of payment may be made by contracting us in advance of order.

### Canceled Orders and/or Return of Equipment

A charge of 20% of net selling price plus all transportation costs will be assessed for placing any un-used standard inventory equipment back in Company's stock. Equipment shipped in error by the Company will be replaced at no additional cost to the customer. Claim for errors in shipments must be made within ten (10) days after receipt of the equipment. No equipment shall be returned unless authorized by us in writing. When requesting authorization to return equipment, direct your request to the attention of the Service Department and please specify OUR sales order number.

### Taxes

Sales, use, or similar taxes are not included in the equipment prices listed in this price catalog. Consequently, in addition to the published price, the amount of any present or future sales, use, or other similar tax which may be applicable to the sale, must be paid by the Purchaser, or in lieu thereof, the Purchaser must provide the Company with a tax exemption certificate acceptable to the taxing authorities.

### Quotations

All quotations, sales and agreements are subject to strikes, accidents, transportation failures, and other causes beyond our control. Written quotations are valid for 60 days unless otherwise stated.

### Warranty

For any equipment proven to be defective in manufacture or in the event of equipment failure within the Warranty period, adjustment will be provided in exact accordance with the

provisions of Metrosonics, Inc. Warranty Policy F.O.B. point of original delivery. Under no circumstances shall the Company be liable for any additional allowances for replacement or repair or for consequential damages to buyer or to any other person. Purchaser must obtain written permission and instructions for return shipment to the Company of any equipment claimed defective, shipped in error, or in excess of inventory needs. You will be required to return this material, prepaid, to Metrosonics, Inc., Drumm Square, West Henrietta, N.Y. 14586, Attn: Service Department. The Company neither assumes, nor authorizes any other person to assume for it, any other liability in connection with the sale of its products.

When writing to us relative to Warranty adjustments, always include the Model Number, Serial Number and OUR Sales Order or Invoice Number.

The Warranty Policy is included in the Instruction Manual which accompanies the equipment.

### Delivery

Shipment is normally made within 30 days ARO. Delivery can be estimated by adding in-transit time. Should a large quantity of equipment be required, please contact our Sales Department for information.

### Engineering Assistance

Application engineers are available at Metrosonics, Inc. to answer questions concerning the user of acoustical measurement equipment. Please contact our Sales Department.

### Minimum Charge

No invoice will be issued in a net amount less than \$50.00 plus transportation. Orders received for less than this amount will automatically be processed and billed at this minimum charge.



**METROSONICS INC.**  
**GENERAL PRODUCTS DIVISION**

P.O. BOX 23075 ■ ROCHESTER, NEW YORK 14692  
TEL 716-334-7300 ■ TLX 853348 ■ FAX 716-334-2635

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### db-307 METROLOGGER

#### db-307 METROLOGGER

**db-307 METROLOGGER** - Wearable dosimeter/integrating sound level meter with display for measuring and computing SPL, Leq, LOSHA, Lmax, dose and test duration. Includes microphone shield, carrying case and clothing clip. .... \$1,295.00

**db-307-MK METROLOGGER KIT** - Same as db-307 plus acoustical calibrator, SLM bracket, screwdriver and storage case. .... \$1,895.00

#### METROLOGGER FIELD KITS

**ek-307 METROLOGGER KIT** - db-307 Metrologger conveniently packaged in a rugged briefcase, complete with carrying case, spare battery, clothing clip, calibrator, SLM bracket, tripod, windscreen and screwdriver. .... \$2,270.00

**fk-307-5 METROLOGGER KIT** - 5 db-307 Metrologgers with five each carrying cases, spare batteries, and clothing clips, with one each calibrator, SLM bracket, and screwdriver. Packaged in a rugged briefcase. .... \$7,225.00

**fk-307-4 METROLOGGER KIT** - Same as fk-307-5 except with 4 Metrologgers and accessories instead of 5. .... \$5,930.00

**fk-307-3 METROLOGGER KIT** - Same as fk-307-5 except with 3 Metrologgers and accessories instead of 5. .... \$4,635.00

**fk-307-2 METROLOGGER KIT** - Same as fk-307-5 except with 2 Metrologgers and accessories instead of 5. .... \$3,340.00

**fk-307-1 METROLOGGER KIT** - Same as fk-307-5 except with 1 Metrologger and accessories instead of 5. .... \$2,045.00

#### METROLOGGER ACCESSORIES

ba-004 REPLACEMENT BATTERIES .....

bc-308 BELT CLIP .....

cc-303 BRIEFCASE (ek-307 kit) .....

cc-304 CARRYING CASE .....

cc-304H HEAVY DUTY CARRYING CASE .....

cc-306 BRIEFCASE (fk-307 kit) .....

ci-304 ACOUSTICAL CALIBRATOR .....

ms-206 CLOTHING CLIP .....

ms-207 TRIPOD - with mounting adapter .....

ms-307 SLM BRACKET .....

sc-307 STORAGE CASE .....

ws-307 FOAM MICROPHONE SHIELD .....

### db-308 METROLOGGER

#### db-308 METROLOGGER

**db-308 METROLOGGER** - Wearable dosimeter, integrating sound level meter, true peak sound level meter and time history monitor. With display and RS-232 output. Includes microphone, microphone shield and belt clip. .... \$1,750.00

**db-308-WA METROLOGGER WITH ACCESSORIES** - Same as db-308 plus printer/computer interface cable, clothing clip, screwdriver and storage case. .... \$1,935.00

**db-308-MK METROLOGGER KIT** - Same as db-308-WA plus acoustical calibrator, power supply adapter and cable. .... \$2,450.00

**fk-308-5 METROLOGGER KIT** - Same as fk-308-10 except with 5 Metrologgers and accessories instead of 10, plus a portable printer. .... \$10,685.00

**fk-308-4 METROLOGGER KIT** - Same as fk-308-5 except with 4 Metrologgers and accessories instead of 5. .... \$8,895.00

**fk-308-3 METROLOGGER KIT** - Same as fk-308-5 except with 3 Metrologgers and accessories instead of 5. .... \$7,105.00

**fk-308-2 METROLOGGER KIT** - Same as fk-308-5 except with 2 Metrologgers and accessories instead of 5. .... \$5,315.00

**fk-308-1 METROLOGGER KIT** - Same as fk-308-5 except with 1 Metrologger and accessories instead of 5. .... \$3,525.00

#### METROLOGGER FIELD KITS

**ek-308 METROLOGGER KIT** - db-308 Metrologger conveniently packaged in a rugged briefcase complete with carrying case, clothing clip, microphone shield, fixed microphone adapter, printer/computer interface cable, belt clip, tripod, spare batteries and screwdriver. .... \$2,345.00

**fk-308-10 METROLOGGER KIT** - 10 db-308 Metrologgers conveniently packaged in a rugged transit case, complete with 10 each carrying cases, clothing clips, microphone shields and spare batteries, with 1 each fixed microphone adapter, printer/computer interface cable, calibrator, power supply with cable, and screwdriver. .... \$18,860.00

#### METROREADER

**db-652A METROREADER** - Portable computer/printer for analyzing, storing and printing data from db-301A, db-308, and di-332 Metrologgers. Packaged in a rugged briefcase. .... \$2,695.00

#### METROLOGGER ACCESSORIES

ba-004 REPLACEMENT BATTERIES .....

bc-308 BELT CLIP .....

ca-308-CCR TAPE RECORDER INTERFACE CABLE .....

ca-701 RS-232 PRINTER/COMPUTER INTERFACE CABLE .....

cc-303 BRIEFCASE (ek-308 kit) .....

## db-308 METROLOGGER

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### METROLOGGER ACCESSORIES

cc-308H CARRYING CASE .....	\$60.00
cc-318 TRANSIT CASE (for 1 to 5 units w/dp-426 cutout) .....	\$350.00
cc-318-1 TRANSIT CASE (for 1 to 10 units) .....	\$350.00
ccr-308 AUDIO TAPE RECORDER .....	\$225.00
cl-304 ACOUSTICAL CALIBRATOR .....	\$475.00
ma-308 FIXED MICROPHONE ADAPTER .....	\$30.00
mk-308R PENDANT MICROPHONE .....	\$325.00
ms-308 CLOTHING CLIP .....	\$15.00
mt-308 TRIPOD .....	\$160.00
ps-308 POWER SUPPLY W/POWER CABLE .....	\$40.00
sc-308 STORAGE CASE .....	\$75.00
ws-308 FOAM MICROPHONE SHIELD .....	2/\$25.00

### SOFTWARE

ms-312 METROSOFT SOFTWARE - Interrogates logger remotely, receives real time data, creates files, and produces time history/amplitude data graphs .....	\$495.00
APS-1 AREA PROFILING SOFTWARE - Graphically displays survey measurements in 2 or 3 dimension formats .....	\$495.00

### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer .....	\$795.00
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### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES - for dp-426 .....	5/\$60.00
cp-901 TRACTOR FEED PAPER - for db-652A & dp-426 (Box) .....	\$75.00
pr-426 INK JET CARTRIDGE - for db-652A & dp-426 .....	\$45.00

## db-312 METROLOGGERS

### db-312 METROLOGGERS

db-312 METROLOGGER - Wearable dosimeter, integrating sound level meter and time history monitor. With display and RS-232 output. Meets IEC 804, type 1. Requires microphone, microphone shield and preamplifier. ....	\$1,750.00
db-312-WA METROLOGGER WITH ACCESSORIES - Same as db-312 plus printer/computer interface cable, screwdriver and storage case. ....	\$1,920.00
db-312-MK METROLOGGER KIT - Same as db-312-WA plus acoustical calibrator, power supply adapter and cable. ....	\$2,435.00

### METROLOGGER FIELD KITS

ek-312 METROLOGGER KIT - db-312 Metrologger conveniently packaged in a rugged briefcase complete with carrying case, printer/computer interface cable, belt clip, tripod, spare battery and screwdriver. Requires microphone, microphone shield and preamplifier. ....	\$2,450.00
fk-312-5 METROLOGGER KIT - 5 db-312 Metrologgers conveniently packaged in a rugged transit case, complete with 5 each carrying cases, and spare batteries, with 1 each printer/computer interface cable, calibrator, power supply with cable and screwdriver. Requires microphone, microphone shield and preamplifier. ....	\$9,730.00
fk-312-4 METROLOGGER KIT - Same as fk-312-5 except with 4 Metrologgers and accessories instead of 5, plus a portable printer. ....	\$8,745.00
fk-312-3 METROLOGGER KIT - Same as fk-312-4 except with 3 Metrologgers and accessories instead of 4. ....	\$6,985.00
fk-312-2 METROLOGGER KIT - Same as fk-312-4 except with 2 Metrologgers and accessories instead of 4. ....	\$5,225.00
fk-312-1 METROLOGGER KIT - Same as fk-312-4 except with 1 Metrologger and accessories instead of 4. ....	\$3,465.00

### METROLOGGER ACCESSORIES

ba-004 REPLACEMENT BATTERIES .....	4/\$20.00
bc-308 BELT CLIP .....	\$20.00
ca-308-CCR TAPE RECORDER INTERFACE CABLE .....	\$95.00
ca-701 RS-232 PRINTER/COMPUTER INTERFACE CABLE .....	\$95.00
cc-303 BRIEFCASE (ek-312 kit) .....	\$250.00
cc-308H CARRYING CASE .....	\$60.00
cc-318 TRANSIT CASE (for 1-5 units) .....	\$350.00
ccr-308 AUDIO TAPE RECORDER .....	\$225.00
cl-304 ACOUSTICAL CALIBRATOR .....	\$475.00
mk-311 B&K MICROPHONE/PREAMP ASSEMBLY .....	P.U.R.
ms-205A TRIPOD .....	\$160.00
ps-308 POWER SUPPLY W/POWER CABLE .....	\$40.00
sc-308 STORAGE CASE .....	\$75.00
ws-308 FOAM MICROPHONE SHIELD .....	2/\$25.00

### SOFTWARE

ms-312 METROSOFT SOFTWARE - Interrogates logger remotely, receives real time data, creates files, and produces time history/amplitude data graphs .....	\$495.00
APS-1 AREA PROFILING SOFTWARE - Graphically displays survey measurements in 2 or 3 dimension formats .....	\$495.00

### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer .....	\$795.00
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### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES - for dp-426 .....	5/\$60.00
cp-901 TRACTOR FEED PAPER - for dp-426 (Box) .....	\$75.00
pr-426 INK JET CARTRIDGE - for dp-426 .....	\$45.00

## db-3100 METROLOGGER SYSTEM

### db-3100 METROLOGGER

db-3100 METROLOGGER - Wearable dosimeter, integrating sound level meter, true peak sound level meter, and time history monitor. With display and RS-232 output. Requires microphone .....	\$1,450.00
db-3100C METROLOGGER WITH MICROPHONE - db-3100 with microphone, microphone shield, clothing clip and carrying case .....	\$1,825.00

db-3100-WA METROLOGGER WITH ACCESSORIES - db-3100 with microphone, microphone shield, clothing clip, carrying case, printer/computer interface cable, programming disk, screwdriver and storage case .....	\$1,995.00
db-3100-MK METROLOGGER KIT - Same as db-3100-WA plus acoustical calibrator .....	\$2,470.00

NOTE: When ordering CENELEC intrinsically safe units, add \$150.00 per unit, and add E after the -3100, i.e. db-3100E-MK

## db-3100 METROLOGGER SYSTEM

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### METROLOGGER FIELD KITS

<b>ek-3100 METROLOGGER KIT</b> - db-3100 Metrologger conveniently packaged in a rugged briefcase complete with microphone, microphone shield, clothing clip, carrying case, printer/computer interface cable, acoustical calibrator, tripod, spare batteries, programming disk and screwdriver. ....	\$2,795.00
<b>fk-3100-A-10 METROLOGGER KIT</b> - 10 db-3100 Metrologgers conveniently packaged in a rugged transit complete with 10 each carrying cases, clothing clips, microphone shields and spare batteries, with 1 each printer/computer interface cable, acoustical calibrator, programming disk and screwdriver. ....	\$18,645.00
<b>fk-3100B-1 METROLOGGER KIT</b> - Same as ek-3100 except includes dp-426 Portable Printer instead of tripod. ....	\$3,430.00
<b>fk-3100-X-5 METROLOGGER KIT</b> - 5 db-3100 Metrologgers conveniently packaged in a rugged briefcase, complete with 5 each microphones, microphone shields, clothing clips, carrying cases, and spare batteries, with 1 each acoustical calibrator, printer/computer interface cable, programming disk and screwdriver. ....	\$9,670.00
<b>fk-3100-X-4 METROLOGGER KIT</b> - Same as fk-3100-X-5 except with 4 Metrologgers and accessories instead of 5. ....	\$7,895.00
<b>fk-3100-X-3 METROLOGGER KIT</b> - Same as fk-3100-X-5 except with 3 Metrologgers and accessories instead of 5. ....	\$6,120.00
<b>fk-3100-X-2 METROLOGGER KIT</b> - Same as fk-3100-X-5 except with 2 Metrologgers and accessories instead of 5. ....	\$4,345.00
<b>fk-3100-X-1 METROLOGGER KIT</b> - Same as fk-3100-X-5 except with 1 Metrologger and accessories instead of 5. ....	\$2,570.00

**NOTE:** Please indicate a suffix (-X) when ordering:

- A = Complete kit without printer or computer
- D = Complete kit with dp-426 ink jet printer (add \$795.00 to listed price)

(Kit D includes transit case rather than briefcase.)

### METROLOGGER ACCESSORIES

ba-004 REPLACEMENT BATTERIES. ....	4/\$20.00
ca-3004 ADAPTER CABLE. ....	\$95.00
ca-3025 MICROPHONE EXTENSION CABLE, 25ft. ....	\$95.00
ca-3095 MICROPHONE EXTENSION CABLE, 95ft. ....	\$150.00
cb-3100 RS-232 PRINTER/COMPUTER INTERFACE CABLE. ....	\$95.00
cc-303 BRIEFCASE (for ek-3100) ....	\$250.00
cc-304 CARRYING CASE (for db-3100) ....	\$20.00
cc-304H HEAVY DUTY CARRYING CASE (for db-3100) ....	\$60.00
cc-306 BRIEFCASE (for fk-3100A) ....	\$250.00
cc-3100 BRIEFCASE (for fk-3100B) ....	\$250.00
cl-304 ACOUSTICAL CALIBRATOR ....	\$475.00
mk-3100R PENDANT MICROPHONE ....	\$325.00
ms-206 CLOTHING CLIP. ....	\$15.00
mt-3100 TRIPOD WITH MOUNTING ADAPTER AND BOOM. ....	\$160.00
sc-3100 STORAGE CASE (for db-3100-WA & db-3100-MK) ....	\$75.00
tc-3100-5 TRANSIT CASE (for fk-3100D and E) ....	\$350.00
ws-307 FOAM MICROPHONE SHIELD. ....	2/\$25.00

### SOFTWARE

ms-3100 METROSOFT SOFTWARE - Interrogates logger remotely, receives real time data, create files, and produces time history/amplitude data graphs. ....	\$495.00
APS-1 AREA PROFILING SOFTWARE - Graphically displays survey measurements in 2 or 3 dimension formats. ....	\$495.00

### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer. ....	\$795.00
dp-428 PORTABLE PRINTER - Compact battery operated (includes ca-428 Interface Cable) ....	\$595.00

### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES - for dp-426. ....	5/\$60.00
cp-901 TRACTOR FEED PAPER - for dp-426 (Box) ....	\$75.00
pp-428 PRINTER PAPER - for dp-428 (Box) ....	\$25.00
pr-426 INK JET CARTRIDGE for dp-426. ....	\$45.00
pr-428 PRINTER RIBBON - for dp-428 (2) ....	\$45.00

## db-604 SOUND LEVEL ANALYZER

### db-604 SOUND LEVEL ANALYZER

<b>db-604 ENVIRONMENTAL SOUND LEVEL ANALYZER</b> - Precision sound level acquisition and analysis system. Performs simultaneous single-event, multiple-interval, and cumulative data analysis. 40 character LCD alpha-numeric display and RS-232 interface. AC or battery power. ....	\$7,895.00
<b>db-604RTD ENVIRONMENTAL SOUND LEVEL ANALYZER WITH REAL TIME DETECTOR</b> - db-604 with RTD for true RMS detection without crest factor limitation. 120 dB dynamic range. ....	\$10,495.00

### ANALYZER OPTIONS

**NOTE:** When ordering a db-604 including options, specify the part numbers by the following suffixes:

(EX: db-604-AX-BX-CXX-DXX)

### MEMORY AND BATTERY OPTIONS:

A3 16K MEMORY MODULE FOR STANDARD UNIT. ....	\$495.00
A4 16K MEMORY MODULE FOR RTD VERSION. ....	\$495.00
A5 EXTRA BATTERY FOR STANDARD UNIT. ....	\$160.00
A6 16K MEMORY MODULE AND EXTRA BATTERY FOR STANDARD UNIT. ....	\$650.00

### POWER OPTIONS:

B1 115 VAC, 60 HZ OPERATION. ....	No Charge
B2 230 VAC, 50 HZ OPERATION. ....	No Charge

### MICROPHONE OPTIONS:

C01 28V DC OUTPUT. ....	No Charge
C02 B&K 4921 INTERFACE OPTION. ....	No Charge
C03 B&K 4921 INTERFACE WITH REMOTE CALIBRATION. ....	\$95.00
C04 200V DC OUTPUT. ....	\$495.00
C05 METROSONICS mk-604HR HIGH RANGE INTERFACE. ....	\$250.00
<b>TAPE RECORDER/AUDIO OUTPUT/RS-232 OPTIONS:</b>	
D01 EXTERNAL RS-232. ....	\$295.00
D02 EXTERNAL AUDIO OUTPUT. ....	\$85.00
D03 EXTERNAL AUTOMATIC TAPE RECORDER OPTION. ....	\$395.00
D04 EXTERNAL RS-232C AND EXTERNAL AUDIO OUTPUT. ....	\$395.00
D05 EXTERNAL RS-232C AND EXTERNAL AUTOMATIC TAPE RECORDER. ....	\$690.00
D06 INTERNAL TAPE RECORDER OPTION (includes cabling and tape recorder) ....	\$545.00

### SPECIAL OPTION CABLES

<b>MICROPHONE OPTION: C01</b>	
ca-604-BK-6 MICROPHONE CABLE, 6 ft. ....	\$395.00
ca-604-BK-25 MICROPHONE CABLE, 25 ft. ....	\$475.00

## db-604 SOUND LEVEL ANALYZER

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### SPECIAL OPTION CABLES

#### MICROPHONE OPTION: C02

ca-604-4921-25 MICROPHONE CABLE, 25 ft .....	\$80.00
ca-604-4921-50 MICROPHONE CABLE, 50 ft .....	\$110.00
ca-604-4921-75 MICROPHONE CABLE, 75 ft .....	\$140.00
ca-604-4921-100 MICROPHONE CABLE, 100 ft .....	\$170.00

#### MICROPHONE OPTION: C03

ca-604C-4921-25 MICROPHONE CABLE, 25 ft. (w/calibration) .....	\$80.00
ca-604C-4921-50 MICROPHONE CABLE, 50 ft. (w/calibration) .....	\$110.00
ca-604C-4921-75 MICROPHONE CABLE, 75 ft. (w/calibration) .....	\$140.00
ca-604C-4921-100 MICROPHONE CABLE, 100 ft. (w/calibration) .....	\$170.00

#### MICROPHONE OPTION: C04

ca-604-BK-2V-6 MICROPHONE CABLE, 6 ft .....	\$395.00
ca-604-BK-2V-25 MICROPHONE CABLE, 25 ft .....	\$475.00

#### MICROPHONE OPTION: C05

ca-605-HR-25 EXTENSION CABLE, 25 ft .....	\$125.00
ca-605-HR-95 EXTENSION CABLE, 95 ft .....	\$195.00

#### EXTERNAL RS-232C OPTION: D01, D04, D05

ca-607E-6 EXTERNAL RS-232 CABLE, 6 ft .....	\$95.00
ca-607E-25 EXTERNAL RS-232 CABLE, 25 ft .....	\$130.00
ca-607E-50 EXTERNAL RS-232 CABLE, 50 ft .....	\$160.00
ca-607E-100 EXTERNAL RS-232 CABLE, 100 ft .....	\$195.00

#### EXTERNAL AUDIO OPTION: D02, D04

ca-604A AUDIO OUTPUT CABLE, 6 ft .....	\$55.00
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#### AUTOMATIC TAPE RECORDER OPTION: D03, D05

ca-604-ATR AUTOMATIC TAPE CABLE .....	\$140.00
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### ANALYZER ACCESSORIES

ca-601 ANALOG INHIBIT CABLE .....	\$55.00
ca-602 DIGITAL INHIBIT CABLE .....	\$55.00
ca-603 RS-232C CABLE .....	\$275.00
ca-604 P42 INPUT CABLE .....	\$95.00
ca-605-25 EXTENSION CABLE, 25 ft. (for mk-604R microphone) .....	\$125.00
ca-605-95 EXTENSION CABLE, 95 ft. (for mk-604R microphone) .....	\$195.00
ca-606-25 EXTENSION CABLE, 25 ft. (for mk-GR or P42 Type Preamp.) .....	\$125.00
ca-607 NULL MODEM CABLE .....	\$55.00
ca-608 EXTERNAL D.C. POWER CABLE .....	\$80.00
ccr-308 AUDIO TAPE RECORDER .....	\$225.00
cl-304 ACOUSTICAL CALIBRATOR .....	\$475.00
cl-GR GENRAD CALIBRATOR .....	P.U.F.
fc-604 FAST CHARGE ACCESSORY .....	\$395.00
hs-604 HEADPHONES .....	\$195.00
mk-604R PENDANT MICROPHONE .....	\$355.00
mk-GR GENRAD MICROPHONE ASSEMBLY W/CABLE .....	P.U.F.
mm-604-16 MEMORY MODULE .....	\$495.00
ws-301 WINDSCREEN .....	2/\$25.00
ws-604 WINDSENSOR .....	\$745.00

### SOFTWARE

ms-931 METROSOFT SOFTWARE - Interrogates logger remotely, receives real time data, creates files and produces time history/amplitude distribution graphs .....	\$495.00
APS-1 AREA PROFILING SOFTWARE - Graphically displays survey measurements in 2 or 3 dimension formats .....	\$495.00

## dl-332 METROLOGGER

### dl-332 METROLOGGER

dl-332 INDUSTRIAL HYGIENE DATALOGGER - Samples output from external sensors, calculates and stores data for over 3500 sequential time periods. RS-232 output for printers, computers, or modems. .... \$1,750.00

### METROLOGGER FIELD KITS

fk-332-5 METROLOGGER KIT - 5 dl-332 Metrologgers conveniently packaged in a rugged transit case, complete with 5 each carrying cases, spare batteries and input cables, with 1 each printer/computer interface cable, portable printer, power supply, power cable, voltage reference source and screwdriver. .... \$10,375.00

fk-332-4 METROLOGGER KIT - Same as fk-332-5 except with 4 Metrologgers and accessories instead of 5. .... \$9,045.00

fk-332-3 METROLOGGER KIT - Same as fk-332-5 except with 3 Metrologgers and accessories instead of 5. .... \$7,215.00

fk-332-2 METROLOGGER KIT - Same as fk-332-5 except with 2 Metrologgers and accessories instead of 5. .... \$5,385.00

fk-332-1 METROLOGGER KIT - Same as fk-332-5 except with 1 Metrologger and accessories instead of 5. .... \$3,555.00

### METROLOGGER ACCESSORIES

ba-004 REPLACEMENT BATTERIES .....	4/\$20.00
ca-332 A00 INPUT CABLE, Bare Leads .....	\$55.00
ca-332 A01 INPUT CABLE, Double Banana Plug .....	\$55.00
ca-332 A02 INPUT CABLE, Mini Double Banana Plug .....	\$55.00
ca-332 A03 INPUT CABLE, Mini Alligator Clips .....	\$55.00
ca-332 A04 INPUT CABLE, Phone Plug (RCA) .....	\$55.00
ca-332 A05 INPUT CABLE, Phone Plug, 1/4" Dia. ....	\$55.00
ca-332 A06 INPUT CABLE, Mini Phone Plug, 1/8" Dia. ....	\$55.00

ca-332 A07 INPUT CABLE, Sub-Mini Phone Plug, 1/16" Dia. ....	\$55.00
ca-332 A08 INPUT CABLE, #6 Spade Lugs .....	\$55.00
ca-332 A09 INPUT CABLE, Phone Plug 2.5 mm. ....	\$55.00
ca-332 B01 INPUT CABLE, Amphenol, 126 Series, 5-Pin Connector .....	\$70.00
ca-332 B03 INPUT CABLE, Mini Phone Plug w/Resistor .....	\$70.00
ca-332 B04 INPUT CABLE, BNC Connector .....	\$70.00
ca-332 B05 INPUT CABLE, Amphenol, 126 Series, 5-Pin Connector .....	\$70.00
ca-332 B06 INPUT CABLE, 1/16" Phone-Tip Plug (2) .....	\$70.00
ca-332 B07 INPUT CABLE, Mini Power Connector .....	\$70.00
ca-332 B08 INPUT CABLE, Sub-mini phone plug .....	\$70.00
ca-332 B10 INPUT CABLE, 5-Pin DIN Connector .....	\$70.00
ca-332 B11 INPUT CABLE, Amphenol 5-Pin Connector .....	\$70.00
ca-332 B12 INPUT CABLE, 4-Pin Switchcraft Connector .....	\$70.00
ca-332 B13 INPUT CABLE, 4-Pin Vernitron Connector .....	\$70.00
ca-332 B14 INPUT CABLE, 5-Pin Amphenol Connector .....	\$70.00
ca-332 B15 INPUT CABLE, 5-Pin DIN Connector .....	\$70.00
ca-332 B16 INPUT CABLE, 7-Pin Amphenol Connector .....	\$70.00
ca-332 B17 INPUT CABLE, 8-Pin DIN Connector .....	\$70.00
ca-332 C03 INPUT CABLE, 2-Pin Lemo .....	\$90.00
ca-332 C04 INPUT CABLE, Lemo B-Series, 4-Pin, F Connector .....	\$90.00
ca-332 C05 INPUT CABLE, Lemo B-Series, 4-Pin, M Connector .....	\$90.00
ca-332 C06 INPUT CABLE, Aramco 6-Pin F Connector .....	\$90.00
ca-332 C07 INPUT CABLE, 5-Pin DIN Connector .....	\$90.00
ca-701 RS-232 PRINTER/COMPUTER INTERFACE CABLE .....	\$95.00
cc-318 TRANSIT CASE, .....	\$350.00
cc-701 LEATHER CARRYING CASE for dl-332 .....	\$60.00
ps-701 POWER ADAPTER .....	\$40.00
vr-331-2 VOLTAGE REFERENCE SOURCE .....	\$495.00



## dl-332 METROLOGGER

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### SOFTWARE

ms-931 METROSOFT SOFTWARE - Interrogates logger remotely, receives real time data, creates files and produces time history/amplitude distribution graphs ..... \$495.00  
 APS-1 AREA PROFILING SOFTWARE - Graphically displays survey measurements in 2 or 3 dimension formats ..... \$495.00

### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer. .... \$795.00

### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES - for dp-426 ..... 5/\$60.00  
 cp-901 TRACTOR FEED PAPER - for dl-652A & dp-426, (Box) ..... \$75.00  
 pr-426 INK JET CARTRIDGE - for dl-652A & dp-426 ..... \$45.00

## dl-338 DATALOGGER

### dl-338 DATALOGGER

dl-338 FOUR CHANNEL INDUSTRIAL HYGIENE DATALOGGER - Samples outputs from up to 4 sensors or instruments, calculates and stores data for over 3500 sequential time periods. With display and RS-232 output. .... \$1,995.00

### DATALOGGER FIELD KITS

fk-338-5 DATALOGGER KIT - 5 dl-338 Dataloggers conveniently packaged in a rugged transit case, complete with 5 each carrying cases, spare batteries and input cables, with 1 each portable printer, printer/computer interface cable, power adapter, voltage reference source and screwdriver. .... \$12,320.00  
 fk-338-4 DATALOGGER KIT - Same as dl-338-5 except with 4 Dataloggers and accessories instead of 5. .... \$10,130.00  
 fk-338-3 DATALOGGER KIT - Same as dl-338-5 except with 3 Dataloggers and accessories instead of 5. .... \$8,045.00  
 fk-338-2 DATALOGGER KIT - Same as dl-338-5 except with 2 Dataloggers and accessories instead of 5. .... \$5,960.00  
 fk-338-1 DATALOGGER KIT - Same as dl-338-5 except with 1 Datalogger and accessories instead of 5. .... \$3,875.00

### DATALOGGER ACCESSORIES

ba-004 REPLACEMENT BATTERIES. .... 4/\$20.00  
 ca-338 A00 INPUT CABLE, Bare Leads ..... \$55.00  
 ca-338 A01 INPUT CABLE, Double Banana Plug ..... \$55.00  
 ca-338 A02 INPUT CABLE, Mini Double Banana Plug ..... \$55.00  
 ca-338 A03 INPUT CABLE, Mini Alligator Clips ..... \$55.00  
 ca-338 A04 INPUT CABLE, Phone Plug (RCA) ..... \$55.00  
 ca-338 A05 INPUT CABLE, Phone Plug, 1/4" Dia. .... \$55.00  
 ca-338 A06 INPUT CABLE, Mini Phone Plug, 1/8" Dia. .... \$55.00  
 ca-338 A07 INPUT CABLE, Sub-Mini Phone Plug, 1/16" Dia. .... \$55.00  
 ca-338 A08 INPUT CABLE, #6 Spade Lugs ..... \$55.00  
 ca-338 A09 INPUT CABLE, Phone Plug 2.5 mm. .... \$55.00  
 ca-338 B01 INPUT CABLE, Amphenol, 126 Series, 5-Pin Connector ..... \$70.00  
 ca-338 B02 INPUT CABLE, Mini Phone Plug ..... \$70.00  
 ca-338 B03 INPUT CABLE, Mini Phone Plug w/Resistor ..... \$70.00  
 ca-338 B04 INPUT CABLE, BNC Connector ..... \$70.00  
 ca-338 B05 INPUT CABLE, Amphenol, 126 Series, 5-Pin Connector ..... \$70.00

ca-338 B06 INPUT CABLE, 1/16" Phone-Tip Plug (2) ..... \$70.00  
 ca-338 B07 INPUT CABLE, Mini Power Connector ..... \$70.00  
 ca-338 B08 INPUT CABLE, Sub-mini Phone Plug ..... \$70.00  
 ca-338 B10 INPUT CABLE, 5-Pin DIN Connector ..... \$70.00  
 ca-338 B11 INPUT CABLE, Amphenol 5-Pin Connector ..... \$70.00  
 ca-338 B12 INPUT CABLE, 4-Pin Switchcraft Connector ..... \$70.00  
 ca-338 B13 INPUT CABLE, 4-Pin Veritron Connector ..... \$70.00  
 ca-338 B14 INPUT CABLE, Amphenol 5-Pin Connector ..... \$70.00  
 ca-338 B15 INPUT CABLE, 5-Pin DIN Connector ..... \$70.00  
 ca-338 B16 INPUT CABLE, 7-Pin Amphenol Connector ..... \$70.00  
 ca-338 B17 INPUT CABLE, 8-Pin DIN Connector ..... \$70.00  
 ca-338 C03 INPUT CABLE, 2-Pin Lemo Connector ..... \$90.00  
 ca-338 C04 INPUT CABLE, 4-Pin F Lemo B-Series Connector .. \$90.00  
 ca-338 C05 INPUT CABLE, 4-Pin M Lemo B-Series Connector .. \$90.00  
 ca-338 C06 INPUT CABLE, 6-Pin F Armaco Connector ..... \$90.00  
 ca-338 C07 INPUT CABLE, 5-Pin DIN Connector ..... \$90.00  
 ca-371 RS-232 PRINTER/COMPUTER INTERFACE CABLE. .... \$95.00  
 cc-714 LEATHER CARRYING CASE. .... \$60.00  
 ps-714 POWER ADAPTER. .... \$40.00  
 sc-714A STORAGE CASE. .... \$75.00  
 ic-714 TRANSIT CASE. .... \$350.00  
 vr-331-4 VOLTAGE REFERENCE SOURCE. .... \$495.00

### SOFTWARE

ms-932 METROSOFT SOFTWARE - Interrogates logger remotely, receives real time data, creates files, and produces time history/amplitude data graphs ..... \$495.00  
 APS-1 AREA PROFILING SOFTWARE - Graphically displays survey measurements in 2 or 3 dimension formats ..... \$495.00

### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer. .... \$795.00

### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES for dp-426 ..... 5/\$60.00  
 cp-901 TRACTOR FEED PAPER - for dp-426 (Box) ..... \$75.00  
 pr-426 INK JET CARTRIDGE - for dp-426 ..... \$45.00

## dl-3200 DATALOGGER

### dl-3200 DATALOGGER

dl-3200 INDUSTRIAL HYGIENE DATALOGGER - Samples output from external sensors, calculates and stores data for over 14,000 sequential time periods. RS-232 output for printers, computers, or modems. .... \$1,695.00  
 dl-3200-WA DATALOGGER KIT - dl-3200 with input cable, carrying case, RS-232 printer/computer interface cable, ms-3200 Metrossoft and storage case ..... \$1,995.00

### DATALOGGER FIELD KITS

fk-3200-5 DATALOGGER KIT - 5 dl-3200 Dataloggers conveniently packaged in a rugged transit case, complete with 5 each carrying cases, spare batteries and input cables, with 1 each printer/computer interface cable, portable printer, power adapter, voltage reference source, screwdriver and ms-3200 Metrossoft Software ..... \$10,595.00

## dl-3200 DATALOGGER

Continued From Previous Page

### DATALOGGER FIELD KITS

fk-3200-4 DATALOGGER KIT - Same as fk-3200-5 except with 4 Dataloggers and accessories instead of 5. ....	\$8,820.00
fk-3200-3 DATALOGGER KIT - Same as fk-3200-5 except with 3 Dataloggers and accessories instead of 5. ....	\$7,045.00
fk-3200-2 DATALOGGER KIT - Same as fk-3200-5 except with 2 Dataloggers and accessories instead of 5. ....	\$5,270.00
fk-3200-1 DATALOGGER KIT - Same as fk-3200-5 except with 1 Datalogger and accessories instead of 5. ....	\$3,495.00

### DATALOGGER ACCESSORIES

ba-004 REPLACEMENT BATTERIES. ....	4/\$20.00
ca-332 A00 INPUT CABLE, Bare Leads. ....	\$55.00
ca-332 A01 INPUT CABLE, Double Banana Plug. ....	\$55.00
ca-332 A02 INPUT CABLE, Mini Double Banana Plug. ....	\$55.00
ca-332 A03 INPUT CABLE, Mini Alligator Clips. ....	\$55.00
ca-332 A04 INPUT CABLE, Phone Plug (RCA). ....	\$55.00
ca-332 A05 INPUT CABLE, Phone Plug, 1/4" Dia. ....	\$55.00
ca-332 A06 INPUT CABLE, Mini Phone Plug, 1/8" Dia. ....	\$55.00
ca-332 A07 INPUT CABLE, Sub-Mini Phone Plug, 1/16" Dia. ....	\$55.00
ca-332 A08 INPUT CABLE, #6 Spade Lugs. ....	\$55.00
ca-332 B01 INPUT CABLE, Amphenol, 126 Series, 5-Pin Connector. ....	\$70.00
ca-332 B03 INPUT CABLE, Mini Phone Plug w/Resistor. ....	\$70.00
ca-332 B04 INPUT CABLE, BNC Connector. ....	\$70.00
ca-332 B05 INPUT CABLE, Amphenol, 126 Series, 5-Pin Connector. ....	\$70.00
ca-332 B06 INPUT CABLE, 1/16" Phone-Tip Plug (2). ....	\$70.00
ca-332 B07 INPUT CABLE, Mini Power Connector. ....	\$70.00
ca-332 B08 INPUT CABLE, Sub-mini Phone plug. ....	\$70.00
ca-332 B10 INPUT CABLE, 5-Pin DIN Connector. ....	\$70.00
ca-332 B11 INPUT CABLE, Amphenol 5-Pin Connector. ....	\$70.00

ca-332 B12 INPUT CABLE, 4-Pin Switchcraft Connector. ....	\$70.00
ca-332 B13 INPUT CABLE, 4-Pin Verrillon Connector. ....	\$70.00
ca-332 B14 INPUT CABLE, 5-Pin Amphenol Connector. ....	\$70.00
ca-332 B15 INPUT CABLE, 5-Pin DIN Connector. ....	\$70.00
ca-332 B16 INPUT CABLE, 7-Pin Amphenol Connector. ....	\$70.00
ca-332 C03 INPUT CABLE, 2-Pin Lemo. ....	\$90.00
ca-332 C04 INPUT CABLE, Lemo B-Series, 4-Pin, F Conn. ....	\$90.00
ca-332 C05 INPUT CABLE, Lemo B-Series, 4-Pin, M Conn. ....	\$90.00
ca-332 C06 INPUT CABLE, Aramco 6-Pin F Connector. ....	\$90.00
ca-332 C07 INPUT CABLE, 5-Pin DIN Connector. ....	\$90.00
ca-701 RS-232 PRINTER/COMPUTER INTERFACE CABLE. ....	\$95.00
ce-304H LEATHER CARRYING CASE - for dl-3200. ....	\$60.00
ps-3200 POWER ADAPTER. ....	\$40.00
tc-3200 TRANSIT CASE. ....	\$350.00
vr-331-2 VOLTAGE REFERENCE SOURCE. ....	\$495.00

### SOFTWARE

ms-3200 METROSOFT SOFTWARE - Interrogates logger remotely, receives data, creates files and produces time history/amplitude distribution graphs (included with dl-3200 and fk-3200). ....	\$495.00
APS-1 AREA PROFILING SOFTWARE - Graphically displays survey measurements in 2 or 3 dimension formats. ....	\$495.00

### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer. ....	\$795.00
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### PRINTER SUPPLIES

bn-006 RECHARGEABLE BATTERIES - for dp-426. ....	5/\$60.00
cp-901 TRACTOR FEED PAPER - for db-652A & dp-426, (Box). ....	\$75.00
pr-426 INK JET CARTRIDGE - for dl-652A & dp-426. ....	\$45.00

## hs-360 HEAT STRESS MONITOR

### hs-360 HEAT STRESS MONITOR

hs-360-WA-1 HEAT STRESS MONITOR - Rugged monitor for measurement of WBGT. Complete with sensors, operating supplies, batteries and storage case. ....	\$1,150.00
hs-360-WA-2 HEAT STRESS MONITOR - Same as hs-360-WA-1, except with 2 hs-360 Monitors and operating supplies instead of 1. ....	\$2,225.00

### MONITOR OPTIONS

ao-360 ANALOG OUTPUT - to dataloggers (factory installed). ....	\$125.00
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### MONITOR ACCESSORIES

mi-371 MOUNTING FIXTURE. ....	\$95.00
mt-371 TRIPOD. ....	\$160.00
sc-360 STORAGE CASE. ....	\$75.00

### OPERATING SUPPLIES

ba-004 REPLACEMENT BATTERIES. ....	4/\$20.00
dm-371 DEMINERALIZATION RESINS. ....	\$50.00
sk-371 SUPPLY KIT. ....	\$30.00

## hs-371 HEAT STRESS MONITORING SYSTEM

### hs-371 HEAT STRESS MONITOR

hs-371-2-WA HEAT STRESS MONITOR - Rugged analyzer for measurement of WBGT and calculation of stay time. Complete with 2 inch globe sensor, dry and wet bulb sensors, operating supplies, batteries and storage case. ....	\$2,495.00
hs-371-2-MK HEAT STRESS MONITOR - Same as hs-371-2-WA plus power adapter and printer/computer interface cable. ....	\$2,595.00
hs-371-6-WA HEAT STRESS MONITOR - Same as hs-371-2-WA except with 6 inch globe sensor instead of 2 inch. ....	\$2,845.00
hs-371-6-MK HEAT STRESS MONITOR - Same as hs-371-6-WA plus power adapter and printer/computer interface cable. ....	\$2,945.00

### HEAT STRESS MONITOR KITS

fk-371-2-1 HEAT STRESS MONITOR KIT - hs-371-2 Heat Stress Monitor conveniently packaged in a rugged transit case. Complete with portable printer, printer/computer interface cable, tripod, power adapter, spare batteries and paper. ....	\$3,940.00
fk-371-2-2 HEAT STRESS MONITOR KIT - Same as fk-371-2-1, except with 2 hs-371-2 Monitors instead of 1. ....	\$6,435.00
fk-371-6-1 HEAT STRESS MONITOR KIT - Same as fk-371-2-1 except with 6 inch globe sensor instead of 2 inch globe sensor. ....	\$4,160.00

### MONITOR ACCESSORIES

ca-371C-X SENSOR CALIBRATION CABLE. ....	\$95.00
ca-371 RS-232 PRINTER/COMPUTER INTERFACE CABLE. ....	\$95.00
ca-372-20 SENSOR EXTENSION CABLE (20 Feet). ....	\$250.00

## hs-371 HEAT STRESS MONITORING SYSTEM

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### MONITOR ACCESSORIES

ca-372-50 SENSOR EXTENSION CABLE (50 Feet)	\$325.00
ca-372-100 SENSOR EXTENSION CABLE (100 Feet)	\$395.00
cl-371 CALIBRATOR PLUG	\$145.00
mf-371 MOUNTING FIXTURE	\$95.00
mt-371 TRIPOD	\$160.00
ps-371 POWER ADAPTER	\$40.00
sc-371-2 STORAGE CASE (2 inch globe)	\$75.00
sc-371-6 STORAGE CASE (6 inch globe)	225.00
tc-371-2 TRANSIT CASE (2 inch globe)	\$350.00
tc-371-6 TRANSIT CASE (6 inch globe)	\$425.00

### OPERATING SUPPLIES

ba-005 REPLACEMENT BATTERIES (6 C-cells)	\$60.00
dm-371 DEMINERALIZATION RESINS	\$50.00

sk-371 SUPPLY KIT	\$30.00
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### SOFTWARE

ms-973 METROSOFT SOFTWARE - Interrogates monitor remotely, receives real-time data and creates files	\$495.00
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### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer	\$795.00
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### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES - for dp-426	5/\$60.00
cp-901 TRACTOR FEED PAPER - for dp-426 (Box)	\$75.00
pr-426 INK JET CARTRIDGE - for dp-426	\$45.00

## hs-383 HEAT STRESS MONITOR

### hs-383 HEAT STRESS MONITOR

*hs-383-X HEAT STRESS MONITOR - Wearable personal heat stress monitor. Samples body mounted sensors, calculates exceedances, displays alarms, and logs data. Includes monitor module, sensor assembly and sensor belt	\$1,595.00
*hs-383-X-WA HEAT STRESS MONITOR WITH ACCESSORIES - Same as hs-383-X plus printer/computer interface cable, spare batteries, screwdriver and storage case	\$1,765.00
*hs-383-X-MK HEAT STRESS MONITOR KIT - Same as hs-383-X-WA plus a calibrator	\$2,160.00

NOTE: Please Indicate a Suffix (-x) When Ordering:

-G = General Applications -P = Power Utilities Applications

\* Add \$200.00 For Each -P Suffix Monitor

### HEAT STRESS MONITOR KITS

*fk-383-X-10 HEAT STRESS MONITOR KIT - 10 Personal Heat Stress Monitors conveniently packaged in a rugged transit case complete with spare batteries and 1 each calibrator and printer/computer interface cable	\$16,325.00
*fk-383-X-5 HEAT STRESS MONITOR KIT - Same as fk-383-X-10 except with 5 monitors and accessories instead of 10, plus a portable printer	\$9,370.00
*fk-383-X-4 HEAT STRESS MONITOR KIT - Same as fk-383-X-5 except with 4 monitors and accessories instead of 5	\$7,820.00
*fk-383-X-3 HEAT STRESS MONITOR KIT - Same as fk-383-X-5 except with 3 monitors and accessories instead of 5	\$6,270.00
*fk-383-X-2 HEAT STRESS MONITOR KIT - Same as fk-383-X-5 except with 2 monitors and accessories instead of 5	\$4,720.00

*fk-383-X-1 HEAT STRESS MONITOR KIT - Same as fk-383-X-5 except with 1 monitor and accessories instead of 5	\$3,170.00
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### MONITOR ACCESSORIES

ba-004 REPLACEMENT BATTERIES	4/\$20.00
ca-383-X PRINTER/COMPUTER INTERFACE CABLE	\$105.00
cc-304H LEATHER CARRYING CASE	\$60.00
cl-383-X CALIBRATOR/SIMULATOR	\$395.00
pm-383-G PERSONAL MONITOR	\$1,220.00
pm-383-P PERSONAL MONITOR	\$1,420.00
sa-383-X SENSOR ASSEMBLY	\$295.00
sb-383 SENSOR BELT	\$100.00
sba-383 SHOULDER HARNESS	\$95.00
sc-383 STORAGE CASE	\$75.00
sl-383 FOAM TEMPERATURE SENSOR INSULATOR (10 pc)	\$40.00
sw-383-X SENSOR ASSEMBLY WITH BELT	\$375.00
tc-383 TRANSIT CASE (for 1-5 units w/dp-426 cutout)	\$350.00
tc-383-1 TRANSIT CASE (for 1-10 units)	\$350.00

### SOFTWARE

ms-934 METROSOFT SOFTWARE - Interrogates logger remotely, receives data, creates files, and produces time history graphs	\$495.00
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### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer	\$795.00
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### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES - for dp-426	5/\$60.00
cp-901 TRACTOR FEED PAPER - for dp-426 (Box)	\$75.00
pr-426 INK JET CARTRIDGE - for dp-426	\$45.00

## hs-385 PHYSIOLOGICAL MONITOR

### hs-385 PHYSIOLOGICAL MONITOR

hs-385 PHYSIOLOGICAL MONITOR - Wearable personal physiological monitor. Samples body mounted temperature and heart beat sensors, and logs data. Includes monitor module, sensor assembly and sensor belt	\$1,595.00
hs-385-WA PHYSIOLOGICAL MONITOR WITH ACCESSORIES - Same as hs-385 plus printer/computer interface cable, spare batteries, screwdriver and storage case	\$1,765.00
hs-385-MK PHYSIOLOGICAL MONITOR KIT - Same as hs-385-WA plus a calibrator	\$2,160.00

### PHYSIOLOGICAL MONITOR KITS

fk-385-5 PHYSIOLOGICAL MONITOR KIT - 5 Personal Physiological Monitors conveniently packaged in a rugged transit case complete with spare batteries, and 1 each portable printer, calibrator and printer/computer interface cable	\$9,370.00
fk-385-4 PHYSIOLOGICAL MONITOR KIT - Same as fk-385-5 except with 4 monitors and accessories instead of 5	\$7,820.00
fk-385-3 PHYSIOLOGICAL MONITOR KIT - Same as fk-385-5 except with 3 monitors and accessories instead of 5	\$6,270.00
fk-385-2 PHYSIOLOGICAL MONITOR KIT - Same as fk-385-5 except with 2 monitors and accessories instead of 5	\$4,720.00

## hs-385 PHYSIOLOGICAL MONITOR

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### PHYSIOLOGICAL MONITOR KITS

fk-385-1 PHYSIOLOGICAL MONITOR KIT - Same as fk-385-5 except with 1 monitor and accessories instead of 5 ..... \$3,170.00

### MONITOR ACCESSORIES

ba-004 REPLACEMENT BATTERIES ..... 4/\$20.00  
 ca-383-G PRINTER/COMPUTER INTERFACE CABLE ..... \$105.00  
 cc-304H LEATHER CARRYING CASE ..... \$60.00  
 cl-383-G CALIBRATOR SIMULATOR ..... \$395.00  
 pm-385 PERSONAL MONITOR ..... \$1,220.00  
 sa-385 SENSOR ASSEMBLY ..... \$295.00  
 sb-383 SENSOR BELT ..... \$100.00  
 sc-383 STORAGE CASE ..... \$75.00  
 sl-383 SENSOR INSULATOR KIT (10 pieces) ..... \$40.00  
 sw-385 SENSOR ASSEMBLY WITH BELT ..... \$375.00

tc-383 TRANSIT CASE (for 1-5 units w/dp-426 cutout) ..... \$350.00  
 tc-383-1 TRANSIT CASE (for 1-10 units) ..... \$350.00

### SOFTWARE

ms-934 METROSOFT SOFTWARE - Interrogates logger remotely, receives data, creates files, and produces time history graphs. .... \$495.00

### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer ..... \$795.00

### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES - for dp-426 ..... 5/\$60.00  
 cp-901 TRACTOR FEED PAPER - for dp-426 (Box) ..... \$75.00  
 pr-426 INK JET CARTRIDGE - for dp-426 ..... \$45.00

## aq-501 AIR QUALITY MONITOR

### aq-501 AIR QUALITY MONITOR

aq-501-13A AIR QUALITY MONITOR - Displays and datalogs levels of carbon dioxide, humidity and temperature, plus a toxic gas and additional parameter. With removable sensor assembly, printer/computer interface cable and ms-501 Metrosolt. Packaged in a rugged portable carrying caso. .... \$5,795.00  
 aq-501-13D AIR QUALITY MONITOR - Same as aq-501-13A plus a 10 foot sensor extension cable. .... \$6,020.00  
 aq-501-4A AIR QUALITY MONITOR - Same as aq-501-13A, except packaged in a NEMA 4 fiberglass enclosure for fixed installations. .... \$5,795.00  
 aq-501-4D AIR QUALITY MONITOR - Same as aq-501-4A plus a 10 foot sensor extension cable. .... \$6,020.00

### GAS SENSORS

gs-7701n CARBON MONOXIDE SENSOR ..... \$395.00  
 gs-7702n HYDROGEN SULFIDE SENSOR ..... \$395.00  
 gs-7703n SULFUR DIOXIDE SENSOR ..... \$550.00  
 gs-7704n CHLORINE SENSOR ..... \$550.00  
 gs-7705n NITROGEN DIOXIDE SENSOR ..... \$550.00  
 gs-7706n NITRIC OXIDE SENSOR ..... \$550.00

### CALIBRATION SUPPLIES

eg-CO2-1000 REPLACEMENT GAS (1000 ppm CO<sub>2</sub>) ..... \$135.00  
 eg-CO2-5000 REPLACEMENT GAS (5000 ppm CO<sub>2</sub>) ..... \$135.00  
 eg-N2 N<sub>2</sub> REPLACEMENT GAS ..... \$95.00  
 sk-1000 CALIBRATION KIT - with 1000 ppm CO<sub>2</sub> & N<sub>2</sub> gases ..... \$550.00  
 sk-5000 CALIBRATION KIT - with 5000 ppm CO<sub>2</sub> & N<sub>2</sub> gases ..... \$550.00

NOTE: See Toxic Gas Calibration Supplies on Page 12.

### MONITOR ACCESSORIES

ca-701 RS-232 PRINTER/COMPUTER INTERFACE CABLE ..... \$95.00  
 ca-501-10 SENSOR EXTENSION CABLE ..... \$225.00  
 ca-501 A00 INPUT CABLE, Bare Leads ..... \$55.00  
 ca-501 A01 INPUT CABLE, Double Banana Plug ..... \$55.00  
 ca-501 A02 INPUT CABLE, Mini Double Banana Plug ..... \$55.00  
 ca-501 A03 INPUT CABLE, Mini Alligator Clips ..... \$55.00  
 ca-501 A04 INPUT CABLE, Phone Plug (RCA) ..... \$55.00  
 ca-501 A05 INPUT CABLE, Phone Plug, 1/4" Dia. .... \$55.00  
 ca-501 A06 INPUT CABLE, Mini Phone Plug, 1/8" Dia. .... \$55.00  
 ca-501 A07 INPUT CABLE, Sub-Mini Phone Plug, 1/16" Dia. .... \$55.00  
 ca-501 A08 INPUT CABLE, #6 Spade Lugs ..... \$55.00  
 ca-501 A09 INPUT CABLE, Phone Plug 2.5 mm. .... \$55.00  
 ca-501 B01 INPUT CABLE, Amphenol, 126 Series, 5-Pin Connector ..... \$70.00

ca-501 B03 INPUT CABLE, Mini Phone Plug w/Resistor ..... \$70.00  
 ca-501 B04 INPUT CABLE, BNC Connector ..... \$70.00  
 ca-501 B05 INPUT CABLE, Amphenol, 126 Series, 5-Pin Connector ..... \$70.00  
 ca-501 B06 INPUT CABLE, 1/16" Phone-Tip Plug (2) ..... \$70.00  
 ca-501 B07 INPUT CABLE, Mini Power Connector ..... \$70.00  
 ca-501 B08 INPUT CABLE, Sub-mini phone plug ..... \$70.00  
 ca-501 B10 INPUT CABLE, 5-Pin DIN Connector ..... \$70.00  
 ca-501 B11 INPUT CABLE, Amphenol 5-Pin Connector ..... \$70.00  
 ca-501 B12 INPUT CABLE, 4-Pin Switchcraft Connector ..... \$70.00  
 ca-501 B13 INPUT CABLE, 4-Pin Veritron Connector ..... \$70.00  
 ca-501 B14 INPUT CABLE, 5-Pin Amphenol Connector ..... \$70.00  
 ca-501 B15 INPUT CABLE, 5-Pin DIN Connector ..... \$70.00  
 ca-501 B16 INPUT CABLE, 7-Pin Amphenol Connector ..... \$70.00  
 ca-501 B17 INPUT CABLE, 8-Pin DIN Connector ..... \$70.00  
 ca-501 C03 INPUT CABLE, 2-Pin Lemo ..... \$90.00  
 ca-501 C04 INPUT CABLE, Lemo B-Series, 4-Pin, F Connector ..... \$90.00  
 ca-501 C05 INPUT CABLE, Lemo B-Series, 4-Pin, M Connector ..... \$90.00  
 ca-501 C06 INPUT CABLE, Aramco 6-Pin F Connector ..... \$90.00  
 ca-7725 GAS SENSOR EXTENSION CABLE (25 ft.) ..... \$95.00  
 fi-501 FILTER KIT ..... \$30.00  
 sa-501 SENSOR ASSEMBLY ..... \$685.00  
 sf-510 REPLACEMENT FILTER ..... \$30.00

### MONITOR OPTIONS

al-501 ALARM RELAY ..... \$95.00  
 aq-501-B1 115 VAC, 60 HZ OPERATION ..... No Charge  
 aq-501-B2 230 VAC, 50 HZ OPERATION ..... No Charge

### MONITOR OPTIONS

mm-501-32K 32,000 SAMPLE MEMORY ..... \$95.00  
 mm-501-64K 64,000 SAMPLE MEMORY ..... \$295.00  
 mm-501-128K 128,000 SAMPLE MEMORY ..... \$695.00

### SOFTWARE

ms-501 METROSOFT SOFTWARE - Interrogates monitor remotely, receives data, creates files, and produces time history graphs. (Included in aq-501) ..... \$495.00  
 APS-1 AREA PROFILING SOFTWARE - Graphically displays survey measurements in 2 or 3 dimension formats ..... \$495.00

### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer. .... \$795.00

## aq-501 AIR QUALITY MONITORS

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### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES - for dp-426 ..... 5/\$60.00

cp-901 TRACTOR FEED PAPER - for dp-426 (Box) ..... \$75.00  
pr-426 INK JET CARTRIDGE - for dp-426 ..... \$45.00

## aq-502 INDOOR ENVIRONMENT MONITORS

### aq-502 INDOOR ENVIRONMENT MONITOR

aq-502 INDOOR ENVIRONMENTAL MONITOR - Displays and datalogs levels of carbon dioxide, humidity and temperature, plus, with other sensors, ozone, particulates, noise, toxic gas, air velocity, illumination, and additional parameters. With removable sensor assembly, printer/computer interface cable and ms-502 Metrossoft. Packaged in a rugged portable carrying case. .... \$6,895.00

### SENSOR MODULES

pa-502 PARTICULATE SENSOR - For measuring airborne particulates (1 to 10 micron range) (factory installed). .... \$4,995.00  
oz-502 OZONE SENSOR - For monitoring ozone (.01 to 1 ppm range) (factory installed). .... \$2,595.00  
db-502 SOUND MONITOR - For monitoring sound level (40 to 140 dBA range) (factory installed). .... \$1,750.00  
ls-502 ILLUMINATION SENSOR - For monitoring light (0 to 300 LUX range), with plug-in cable. .... \$395.00  
vs-502 AIR VELOCITY SENSOR - For monitoring air flow (0 to 20 m/sec range), with plug-in cable ..... \$1,195.00  
gs-502 DETECTOR TUBE FIXTURE - For use with a variety of standard detector tubes (handles up to 4 detector tubes) (factory installed) ..... \$1,495.00

### GAS SENSORS

gs-7701n CARBON MONOXIDE SENSOR. .... \$395.00  
gs-7702n HYDROGEN SULFIDE SENSOR. .... \$395.00  
gs-7703n SULFUR DIOXIDE SENSOR. .... \$550.00  
gs-7704n CHLORINE SENSOR. .... \$550.00  
gs-7705n NITROGEN DIOXIDE SENSOR. .... \$550.00  
gs-7706n NITRIC OXIDE SENSOR ..... \$550.00  
gs-7710n OXYGEN SENSOR ..... \$250.00

### CALIBRATION SUPPLIES

cl-304 ACOUSTICAL CALIBRATOR. .... \$475.00  
cl-psc02 PARTICULATE CALIBRATOR KIT. .... \$675.00  
sg-CO2-1000 REPLACEMENT GAS (1000 ppm CO<sub>2</sub>) ..... \$135.00  
sg-CO2-5000 REPLACEMENT GAS (5000 ppm CO<sub>2</sub>) ..... \$135.00  
sg-N2 N<sub>2</sub> REPLACEMENT GAS. .... \$95.00  
sk-1000 CALIBRATION KIT - with 1000 ppm CO<sub>2</sub> & N<sub>2</sub> gases ..... \$550.00  
sk-5000 CALIBRATION KIT - with 5000 ppm CO<sub>2</sub> & N<sub>2</sub> gases ..... \$550.00

NOTE: See Toxic Gas Calibration Supplies on Page 12.

### MONITOR ACCESSORIES

ca-701 RS-232 PRINTER/COMPUTER INTERFACE CABLE. .... \$95.00  
ca-501-10 SENSOR EXTENSION CABLE. .... \$225.00  
ca-502 A00 INPUT CABLE, Bare Leads ..... \$55.00  
ca-502 A01 INPUT CABLE, Double Banana Plug. .... \$55.00  
ca-502 A02 INPUT CABLE, Mini Double Banana Plug. .... \$55.00  
ca-502 A03 INPUT CABLE, Mini Alligator Clips. .... \$55.00

ca-502 A04 INPUT CABLE, Phone Plug (RCA) ..... \$55.00  
ca-502 A05 INPUT CABLE, Phone Plug, 1/4" Dia. .... \$55.00  
ca-502 A06 INPUT CABLE, Mini Phone Plug, 1/8" Dia. .... \$55.00  
ca-502 A07 INPUT CABLE, Sub-Mini Phone Plug, 1/16" Dia. .... \$55.00  
ca-502 A08 INPUT CABLE, #6 Spade Lugs ..... \$55.00  
ca-502 A09 INPUT CABLE, Phone Plug 2.5 mm. .... \$55.00  
ca-502 B01 INPUT CABLE, Amphenol, 126 Series, 5-Pin Connector ..... \$70.00  
ca-502 B03 INPUT CABLE, Mini Phone Plug w/Resistor ..... \$70.00  
ca-502 B04 INPUT CABLE, BNC Connector ..... \$70.00  
ca-502 B05 INPUT CABLE, Amphenol, 126 Series, 5-Pin Connector ..... \$70.00  
ca-502 B06 INPUT CABLE, 1/16" Phone-Tip Plug (2) ..... \$70.00  
ca-502 B07 INPUT CABLE, Mini Power Connector ..... \$70.00  
ca-502 B08 INPUT CABLE, Sub-mini phone plug ..... \$70.00  
ca-502 B10 INPUT CABLE, 5-Pin DIN Connector ..... \$70.00  
ca-502 B11 INPUT CABLE, Amphenol 5-Pin Connector ..... \$70.00  
ca-502 B12 INPUT CABLE, 4-Pin Switchcraft Connector ..... \$70.00  
ca-502 B13 INPUT CABLE, 4-Pin Vernitron Connector ..... \$70.00  
ca-502 B14 INPUT CABLE, 5-Pin Amphenol Connector ..... \$70.00  
ca-502 B15 INPUT CABLE, 5-Pin DIN Connector ..... \$70.00  
ca-502 B16 INPUT CABLE, 7-Pin Amphenol Connector ..... \$70.00  
ca-502 B17 INPUT CABLE, 8-Pin DIN Connector ..... \$70.00  
ca-502 C03 INPUT CABLE, 2-Pin Lemo ..... \$90.00  
ca-502 C04 INPUT CABLE, Lemo B-Series, 4-Pin, F Connector ..... \$90.00  
ca-502 C05 INPUT CABLE, Lemo B-Series, 4-Pin, M Connector ..... \$90.00  
ca-502 C06 INPUT CABLE, Aramco 6-Pin F Connector ..... \$90.00  
ca-7725 GAS SENSOR EXTENSION CABLE (25 ft.) ..... \$95.00  
fl-501 FILTER KIT. .... \$40.00  
mk-502R MICROPHONE ..... \$345.00  
sa-501 SENSOR ASSEMBLY ..... \$685.00

### MONITOR OPTIONS

aq-502-B2 230 VAC, 50 HZ OPERATION. .... No Charge  
mm-502-128K 128,000 SAMPLE MEMORY ..... \$395.00

### SOFTWARE

ms-502 METROSOFT SOFTWARE - Interrogates monitor remotely, receives data, creates files, and produces time history graphs. (Included with the aq-502) ..... \$495.00  
aps-1 AREA PROFILING SOFTWARE - Graphically displays survey measurements in 2 or 3 dimension formats ..... \$495.00

### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer. .... \$795.00

### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES - for dp-426 ..... 5/\$60.00  
cp-901 TRACTOR FEED PAPER - for dp-426 (Box) ..... \$75.00  
pr-426 INK JET CARTRIDGE - for dp-426 ..... \$45.00

## aq-510 CARBON DIOXIDE MONITOR

### aq-510 CARBON DIOXIDE MONITOR

aq-510 CARBON DIOXIDE MONITOR - Displays level of carbon dioxide. Includes internal pump and battery. Portable, packaged in a rugged carrying case. .... \$2,995.00

### MONITOR OPTIONS

al-510 ALARM RELAY. .... \$95.00  
aq-510-B1 115 VAC, 60 Hz OPERATION. .... No Charge  
aq-510-B2 230 VAC, 50 Hz OPERATION. .... No Charge  
ms-510 4 TO 20 MA CURRENT LOOP OPERATION. .... \$195.00

## aq-510 CARBON DIOXIDE MONITOR

Continued From Previous Page

### MONITOR ACCESSORIES

et-25 EXTENSION TUBING, 25 Feet (8 M) .....	\$25.00
sf-510 REPLACEMENT FILTER ELEMENT .....	\$30.00

### CALIBRATION SUPPLIES

sk-1000 CALIBRATION KIT - with 1,000 ppm CO <sub>2</sub> & N <sub>2</sub> gases	\$550.00
sk-5000 CALIBRATION KIT - with 5,000 ppm CO <sub>2</sub> & N <sub>2</sub> gases	\$550.00
sg-CO2-1000 REPLACEMENT GAS (1,000 ppm CO <sub>2</sub> ) .....	135.00
sg-CO2-5000 REPLACEMENT GAS (5,000 ppm CO <sub>2</sub> ) .....	135.00
sg-N2 N2 REPLACEMENT GAS .....	\$95.00

## pm-7000 SERIES TOXIC GAS MONITORS

### pm-7000 TOXIC GAS MONITORS

<b>pm-7010 PERSONAL CARBON MONOXIDE MONITOR -</b> Wearable toxic gas monitor with CO sensor. Provides alarms when threshold levels are exceeded. ....	\$750.00
<b>pm-7020 PERSONAL HYDROGEN SULFIDE MONITOR -</b> Wearable toxic gas monitor with H <sub>2</sub> S sensor. Provides alarms when threshold levels are exceeded. ....	\$750.00
<b>pm-7030 PERSONAL SULFUR DIOXIDE MONITOR -</b> Wearable toxic gas monitor with SO <sub>2</sub> sensor. Provides alarms when threshold levels are exceeded. ....	\$850.00
<b>pm-7040 PERSONAL CHLORINE MONITOR -</b> Wearable toxic gas monitor with Cl <sub>2</sub> sensor. Provides alarms when threshold levels are exceeded. ....	\$875.00
<b>pm-7050 PERSONAL NITROGEN DIOXIDE MONITOR -</b> Wearable toxic gas monitor with NO <sub>2</sub> sensor. Provides alarms when threshold levels are exceeded. ....	\$875.00
<b>pm-7060 PERSONAL NITRIC OXIDE MONITOR -</b> Wearable toxic gas monitor with NO sensor. Provides alarms when threshold levels are exceeded. ....	\$875.00

\*Ik-7000-YYY-1 MONITOR KIT - Same as Ik-7000-YYY-5  
except with 1 monitor and accessories instead of 5 ..... \$990.00

NOTE: Please indicate a suffix (-YYY) when ordering:

-CO = Carbon Monoxide	-Cl <sub>2</sub> = Chlorine
-SO <sub>2</sub> = Sulfur Dioxide	-NO <sub>2</sub> = Nitrogen Dioxide
-H <sub>2</sub> S = Hydrogen Sulfide	-NO = Nitric Oxide

\* Add \$100 for each SO<sub>2</sub> monitor and \$125.00 for each Cl<sub>2</sub>, NO and NO<sub>2</sub> monitor.

### REPLACEMENT SENSORS

se-7010 CARBON MONOXIDE SENSOR .....	\$ 225.00
se-7020 HYDROGEN SULFIDE SENSOR .....	\$ 225.00
se-7030 SULFUR DIOXIDE SENSOR .....	\$ 295.00
se-7040 CHLORINE SENSOR .....	\$ 295.00
se-7050 NITROGEN DIOXIDE SENSOR .....	\$ 295.00
se-7060 NITRIC OXIDE SENSOR .....	\$ 295.00

### MONITOR FIELD KITS

*Ik-7000-YYY-5 MONITOR KIT - 5 pm-7000 Monitors conven- iently packaged in a rugged briefcase, complete with 5 each carrying cases and spare batteries, with 1 each calibrator adaptor and screwdriver .....	\$3,990.00
*Ik-7000-YYY-4 MONITOR KIT - Same as Ik-7000-YYY-5 except with 4 monitors and accessories instead of 5 .....	\$3,240.00
*Ik-7000-YYY-3 MONITOR KIT - Same as Ik-7000-YYY-5 except with 3 monitors and accessories instead of 5 .....	\$2,490.00
*Ik-7000-YYY-2 MONITOR KIT - Same as Ik-7000-YYY-5 except with 2 monitors and accessories instead of 5 .....	\$1,740.00

### MONITOR ACCESSORIES

ba-004 REPLACEMENT BATTERIES .....	4/\$20.00
cc-305 CARRYING CASE .....	\$20.00
cc-305H HEAVY DUTY CARRYING CASE .....	\$60.00
cc-7700 BRIEFCASE (for Ik-7000) .....	\$250.00
cl-7700 CALIBRATOR ADAPTOR .....	\$25.00
fc-7700 FILTER CAP .....	3/\$25.00
fl-7700SS STAINLESS STEEL FILTER ELEMENT .....	5/\$45.00
fl-7700TF TEFLON FILTER ELEMENT .....	5/\$45.00
ms-206 CLOTHING CLIP .....	\$15.00

NOTE: See Toxic Gas Calibration Supplies on Page 12.

## pm-7700 METROLOGGER

### pm-7700 METROLOGGER

pm-7700 METROLOGGER - Wearable toxic gas/time history monitor. Requires toxic gas sensor. ....	\$1,195.00
<b>*pm-7700-C-YYY METROLOGGER WITH SENSOR -</b> pm-7700 with toxic gas sensor, calibrator adaptor, carrying case, RS-232 printer/computer interface cable, ms-7700 Metrosolt, batteries and storage case .....	\$1,565.00

NOTE: Please indicate a suffix (-YYY) when ordering:

-CO = Carbon Monoxide	-H <sub>2</sub> S = Hydrogen Sulfide
-SO <sub>2</sub> = Sulfur Dioxide	-Cl <sub>2</sub> = Chlorine
-NO <sub>2</sub> = Nitrogen Dioxide	-NO = Nitric Oxide

*Ik-7700-X-YYY-4 METROLOGGER KIT - Same as Ik-7700-X-YYY-5 except with 4 Metrologgers and accessories instead of 5 .....	\$6,285.00
*Ik-7700-X-YYY-3 METROLOGGER KIT - Same as Ik-7700-X-YYY-5 except with 3 Metrologgers and accessories instead of 5 .....	\$4,770.00
*Ik-7700-X-YYY-2 METROLOGGER KIT - Same as Ik-7700-X-YYY-5 except with 2 Metrologgers and accessories instead of 5 .....	\$3,255.00
*Ik-7700-X-YYY-1 METROLOGGER KIT - Same as Ik-7700-X-YYY-5 except with 1 Metrologger and accessories instead of 5 .....	\$1,740.00

NOTE: Please indicate a suffix (-X) when ordering.

-A = Complete kit without printer or computer
-D = Complete kit with dp-426 ink jet printer (add \$795.00 to listed price)

(Kit D includes transit case rather than briefcase.)

\*Add \$155.00 for each SO<sub>2</sub>, Cl<sub>2</sub>, NO<sub>2</sub> and NO sensor

### METROLOGGER FIELD KITS

*Ik-7700-X-YYY-5 METROLOGGER KIT - 5 pm-7700 Metrologgers conveniently packaged in a rugged briefcase, complete with 5 each toxic gas sensors (specify type), carrying cases and spare batteries, with 1 each calibrator adaptor, printer/computer interface cable, ms-7700 Metrosolt and screwdriver. ....	\$7,795.00
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## pm-7700 METROLOGGER

Continued From Previous Page

### GAS SENSORS

gs-7701 CO SENSOR ASSEMBLY.....	\$395.00
gs-7702 H <sub>2</sub> S SENSOR ASSEMBLY.....	\$395.00
gs-7703 SO <sub>2</sub> SENSOR ASSEMBLY.....	\$550.00
gs-7704 Cl <sub>2</sub> SENSOR ASSEMBLY.....	\$550.00
gs-7705 NO <sub>x</sub> SENSOR ASSEMBLY.....	\$550.00
gs-7706 NO <sub>2</sub> SENSOR ASSEMBLY.....	\$550.00

### METROLOGGER ACCESSORIES

ba-004 REPLACEMENT BATTERIES.....	4/\$20.00
ca-7700 RS-232 PRINTER/COMPUTER INTERFACE CABLE.....	\$95.00
cc-304 CARRYING CASE.....	\$20.00
cc-304H HEAVY DUTY CARRYING CASE.....	\$60.00
cc-7700 BRIEFCASE (for lk-7700A).....	\$250.00
cl-7700 CALIBRATOR ADAPTOR.....	\$25.00
fc-7700 FILTER COVER.....	3/\$25.00
fl-7700SS STAINLESS STEEL FILTER ELEMENT.....	5/\$45.00
fl-7700TF TEFLON FILTER ELEMENT.....	5/\$45.00
ms-206 CLOTHING CLIP.....	\$15.00
sc-7700 STORAGE CASE.....	\$75.00
tc-7700 TRANSIT CASE (for lk-7700 D and E).....	\$350.00

NOTE: See Toxic Gas Calibration Supplies below.

### SOFTWARE

ms-7700 METROSOFT SOFTWARE - interrogates logger remotely, receives real time data, creates files, and produces time history/amplitude data graphs. (included with pm-7700 and lk-7700-X).....	\$495.00
APS-1 AREA PROFILING SOFTWARE - Graphically displays survey measurements in 2 or 3 dimension formats.....	\$495.00

### PRINTER

dp-426 PORTABLE INK JET PRINTER - Compact battery operated ink jet printer.....	\$795.00
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### PRINTER SUPPLIES

ba-006 RECHARGEABLE BATTERIES - for dp-426.....	5/\$60.00
cp-901 TRACTOR FEED PAPER - for dp-426 (Box).....	\$75.00
pr-426 INK JET CARTRIDGE - for dp-426.....	\$45.00

## pm-7440 MULTI-GAS MONITOR

### pm-7440 MULTI-GAS MONITOR

pm-7440-O-C MULTI-GAS (2) MONITOR - For monitoring combustible gas and oxygen. Displays alarms upon exceedances, outputs to a printer, and datalogs gas concentrations. Includes calibrator adaptor and programming software..... \$1,350.00  
 \*pm-7440-O-C-YYY MULTI-GAS (3) MONITOR - Same as pm-7440-O-C but with one toxic gas sensor..... \$1,575.00  
 \*pm-7440-O-C-YYY-YYY MULTI-GAS (4) MONITOR - Same as pm-7440-O-C but with two toxic gas sensors..... \$1,795.00

NOTE: Please indicate a suffix (-YYY) when ordering:

-CO = Carbon Monoxide	-Cl <sub>2</sub> = Chlorine
-SO <sub>2</sub> = Sulfur Dioxide	-NO <sub>2</sub> = Nitrogen Dioxide
-H <sub>2</sub> S = Hydrogen Sulfide	-NO = Nitric Oxide

\*Add \$100.00 for each SO<sub>2</sub>, Cl<sub>2</sub>, NO<sub>2</sub> and NO sensor.

### GAS SENSORS

se-7400 COMBUSTIBLE SENSOR.....	\$195.00
se-7405 OXYGEN SENSOR.....	\$150.00
se-7410 CARBON MONOXIDE SENSOR.....	\$225.00
se-7420 HYDROGEN SULFIDE SENSOR.....	\$225.00
se-7430 SULFUR DIOXIDE SENSOR.....	\$325.00
se-7440 CHLORINE SENSOR.....	\$325.00
se-7450 NITROGEN DIOXIDE SENSOR.....	\$325.00
se-7460 NITRIC OXIDE SENSOR.....	\$325.00

### MONITOR ACCESSORIES

ba-007 REPLACEMENT BATTERY.....	\$85.00
ca-701 RS-232 COMPUTER INTERFACE CABLE.....	\$95.00
ca-428 PRINTER INTERFACE CABLE.....	\$95.00
cc-7440 HEAVY DUTY CARRYING CASE.....	\$75.00
cl-7440 CALIBRATOR ADAPTOR.....	\$60.00
ep-7440 EXTERNAL PUMP (battery operated).....	\$450.00
et-30 EXTENSION TUBING FOR PUMP (per foot).....	\$1.00
ps-7440 CHARGER.....	\$40.00
sc-7440 STORAGE CASE.....	\$95.00

NOTE: See Toxic Gas Calibration Supplies below.

### SOFTWARE

ms-7440 METROSOFT SOFTWARE - Interrogates monitor remotely, receives data, creates files, and produces time history graphs.....	\$495.00
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### PRINTER

dp-428 PORTABLE PRINTER - Compact battery operated printer (includes ca-428 interface cable).....	\$595.00
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### PRINTER SUPPLIES

pp-428 PRINTER PAPER - for dp-428 (Box).....	\$25.00
pr-428 PRINTER RIBBON - for dp-428 (2).....	\$45.00

## TOXIC GAS CALIBRATION SUPPLIES

sg-CH4-1.0 REPLACEMENT GAS (1.0% methane) (pm-7440 only).....	\$170.00
sg-CO-35 REPLACEMENT GAS (35 ppm CO).....	\$170.00
sg-CO-200 REPLACEMENT GAS (200 ppm CO).....	\$170.00
sg-H2S-10 REPLACEMENT GAS (10 ppm H <sub>2</sub> S).....	\$170.00
sg-H2S-20 REPLACEMENT GAS (20 ppm H <sub>2</sub> S).....	\$170.00
sg-SO2-5 REPLACEMENT GAS (5 ppm SO <sub>2</sub> ).....	\$170.00
sg-SO2-35 REPLACEMENT GAS (35 ppm SO <sub>2</sub> ).....	\$170.00
sg-Cl2-2 REPLACEMENT GAS (2 ppm Cl <sub>2</sub> ).....	\$370.00
sg-Cl2-10 REPLACEMENT GAS (10 ppm Cl <sub>2</sub> ).....	\$370.00
sg-NO2-5 REPLACEMENT GAS (5 ppm NO <sub>2</sub> ).....	\$370.00
sg-NO-25 REPLACEMENT GAS (25 ppm NO).....	\$370.00

sk-7400-1.0 CALIBRATION KIT - with 1.0% methane gas (pm-7440 only).....	\$395.00
sk-7701-35 CALIBRATION KIT - with 35 ppm CO gas.....	\$395.00
sk-7701-200 CALIBRATION KIT - with 200 ppm CO gas.....	\$395.00
sk-7702-10 CALIBRATION KIT - with 10 ppm H <sub>2</sub> S gas.....	\$395.00
sk-7702-20 CALIBRATION KIT - with 20 ppm H <sub>2</sub> S gas.....	\$395.00
sk-7703-5 CALIBRATION KIT - with 5 ppm SO <sub>2</sub> gas.....	\$395.00
sk-7703-35 CALIBRATION KIT - with 35 ppm SO <sub>2</sub> gas.....	\$395.00
sk-7704-2 CALIBRATION KIT - with 2 ppm Cl <sub>2</sub> gas.....	\$595.00
sk-7704-10 CALIBRATION KIT - with 10 ppm Cl <sub>2</sub> gas.....	\$595.00
sk-7705-5 CALIBRATION KIT - with 5 ppm NO <sub>2</sub> gas.....	\$595.00
sk-7706-25 CALIBRATION KIT - with 25 ppm NO gas.....	\$595.00



# Turn To **Metrosonics**

## For Your Instruments & Software Needs

### NOISE

#### db-307 NOISE MONITOR

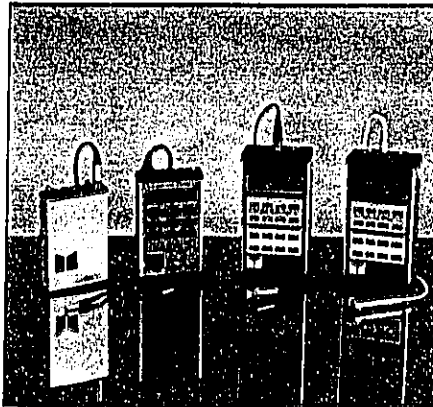
- Displays Sound Levels
- Calculates and Displays Total Noise Exposure

#### db-308 NOISE MONITOR

- Displays and Records Noise Exposure Data
- Generates Reports
- Keypad allows Programming for Different Tests while in the Field
- Available with Metrosoft Software

#### db-312 PRECISION NOISE MONITOR

- Performs ALL Functions of the db-308
- Meets IEC Type 1 Specifications



#### db-3100 NOISE MONITOR

- Displays and Records Noise Exposure Data and Generates Reports
- Very Compact and Lightweight
- Operates with Just 3 Buttons
- Programmed for Different Test Conditions Within Seconds from your Computer
- Available with Metrosoft Software

#### db-604 UNIVERSAL SOUND LEVEL ANALYZER

- Measures and Records Airport, Community and Industrial Noise
- Operates Unattended
- Generates Reports

### INDOOR AIR QUALITY

#### aq-510

##### CARBON DIOXIDE MONITOR

- Measures and Displays Carbon Dioxide
- Available with Real-Time Output to Dataloggers or Recording Monitors

#### aq-501 INDOOR

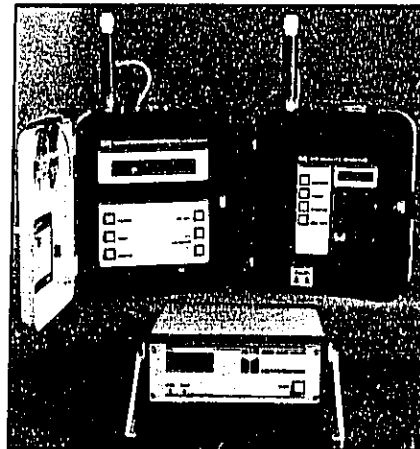
##### AIR QUALITY MONITOR

- Measures and Records Carbon Dioxide, Temperature, Relative Humidity, Toxic Gas, and Other Pollutants Simultaneously
- Generates Reports
- Comes with Metrosoft Software

#### aq-502 INDOOR

##### ENVIRONMENT MONITOR

- Includes ALL Capabilities of the aq-501 PLUS Measures and Records Any or All of the Following:
  - Air Velocity
  - Light
  - Ozone
  - Particulates
  - Sound Level
- Accepts up to 4 Detector Tubes for Specific Pollutants
- Built-In Printer for added Convenience when Generating Reports in the Field
- Comes with Metrosoft Software





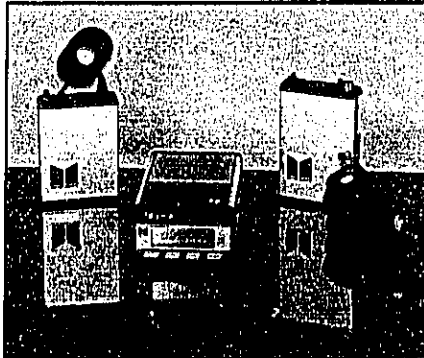
## TOXIC GAS

### pm-7000 SERIES PERSONAL TOXIC GAS MONITORS

- Measures Gas Level and Provides Alarms
- Individual Instruments for: CO, H<sub>2</sub>S, SO<sub>2</sub>, Cl<sub>2</sub>, NO<sub>2</sub> and NO

### pm-7700 PERSONAL TOXIC GAS MONITOR

- Measures and Records Gas Level and Provides Alarms
- Interchangeable Sensors for: CO, H<sub>2</sub>S, SO<sub>2</sub>, Cl<sub>2</sub>, NO<sub>2</sub> and NO
- Generates Reports
- Comes with Metrosoft Software



### pm-7440 MULTI-GAS MONITOR - IDEAL FOR CONFINED SPACE ENTRY

- Measures and Records Up to Four Gases Simultaneously: Oxygen, Combustibles and Toxic Gas (CO, H<sub>2</sub>S, SO<sub>2</sub>, Cl<sub>2</sub>, NO<sub>2</sub>, NO)
- Provides Alarms
- Outputs Instantaneous Gas Levels on a Portable Printer for Confined Entry Permits
- Captures Exceedance Events
- Generates Reports
- Available with Metrosoft Software

## HEAT STRESS

### hs-360 AREA HEAT STRESS MONITOR

- Displays Wet Bulb, Dry Bulb and Globe Temperatures
- Calculates Indoor & Outdoor WBGT

### hs-371 AREA HEAT STRESS MONITOR

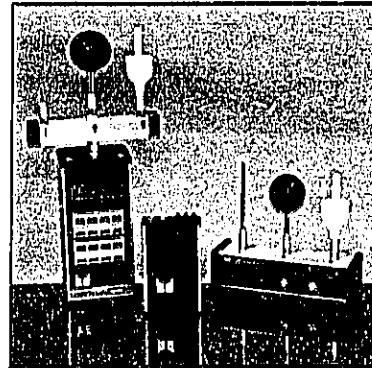
- Performs ALL Functions of the hs-360 PLUS:
  - Records Data
  - Computes Stay Times for US Navy PHEL and EPRI Criteria
  - Generates Reports
  - Available with Metrosoft Software

### hs-383 PERSONAL HEAT STRESS MONITOR

- Measures and Records Heart Rate and Body Temperature
- Provides Visual and Audio Alerts to Indicate Physiological Strain
- Pocket Sized and Lightweight
- Generates Reports
- Available with Metrosoft Software

### hs-385 PERSONAL PHYSIOLOGICAL MONITOR

- Includes the Same Features as the hs-383 EXCEPT does NOT Provide Visual & Audio Alerts



## GENERAL PURPOSE DATALOGGING



### di-3200 SINGLE CHANNEL DATALOGGER

- Interfaces with Industrial Hygiene and Pollution Monitors and Records Data Values
- Small and Lightweight
- Operates with Just 4 Buttons
- Quickly Setup for Different Tests From Your Computer
- Generates Reports
- Comes with Metrosoft Software

### di-332 SINGLE CHANNEL DATALOGGER

- Performs the Same Functions as the di-3200
- Keypad Allows Programming for Different Tests while in the Field
- Available with Metrosoft Software

### di-338 FOUR CHANNEL DATALOGGER

- Performs ALL Functions of the di-332 PLUS Monitors up to 4 Sensors Simultaneously



### METROSONICS INC. GENERAL PRODUCTS DIVISION

P.O. BOX 23075 ■ ROCHESTER, NEW YORK 14692  
TEL 716-334-7300 ■ TLX 853348 ■ FAX 716-334-2635

# Produce Ready to Use Reports

## Easy to Read Reports

There are several reports which at any time, may be output directly from the db-3100 to a printer, in completely formatted, easy to read form. Using Metrosoft, these reports may also be viewed, saved on disk, or output via the computer's printer.

## Overall Statistics Report

The Overall Statistics Report lists programming information and summary statistics for the entire test.

```

METROSONICS db-3100 SN 1068 V1.3
REPORT PRINTED 10/25/90 @ 09102:32

DOUBLING RATE: 5dB FILTER: A WONT
DOSE CRITERION: 80dB RESPONSE: SLOW
PRE-CALIBRATION TIME: 10/24/90 @ 7:50:12
PRE-CALIBRATION RANGE: 41.0dB TO 141.0dB
POST-CALIBRATION TIME: 10/24/90 @ 17:05:37
POST-CALIBRATION RANGE: 41.0dB TO 141.0dB

*Calibrator Type & Serial (...Metrosonics cl-304 sn3298)
*Calibrator Calibration Date..August 17, 1990*

TEST BEGAN 10/24/90 @ 8:05:00
TEST LENGTH: 0 DAYS 8:55:00
TEST ENDED 10/24/90 @ 16:59:59
TEST INTERRUPTIONS: 1

Lav = 92.3dB Lav ( 80) = 92.3dB
SEL = N/A Lav ( 90) = 90.6dB
TWA = 91.1dB
TWA ( 80) = 91.0dB TWA ( 90) = 91.4dB
Lmax =122.3dB ON 10/24/90 @ 15:37:13
Lpk =141.6dB ON 10/24/90 @ 8:13:06
TIME OVER 115dB: 0 DAYS 0:00:59.68

# HR DOSE ( 80dB CUTOFF)=153.34%
# HR PROJ. DOSE ( 80dB CUTOFF)=137.58%
    
```

## Amplitude Distribution Report

The Amplitude Distribution Report presents a statistical distribution of all samples taken during the test, and the correlated percent to the total number of samples, as well as a table of Lavg's for various exchange rates and cutoffs, in addition to those on the Overall Statistics Report.

```

** AMPLITUDE DISTRIBUTION REPORT **
TOTAL SAMPLES = 811600
dB SAMPLES % OF TOTAL

77 6186 * 1.20
78 4693 * 0.91
79 12659 ** 2.46
80 33401 ***** 6.50
81 26041 ***** 5.07
82 46030 ***** 8.96
83 16886 *** 3.29
84 27818 ***** 5.42
85 23995 ***** 4.67

Ln( 0.0) = 132dB
Ln(10.0) = 97dB
Ln(50.0) = 87dB
Ln(99.9) = 74dB

NO 80.0dB 90.0dB
CUTOFF CUTOFF CUTOFF

Lav 95.6dB 95.6dB 95.4dB
L40d 93.2dB 91.2dB 92.4dB
Lavg 91.1dB 91.0dB 88.4dB
    
```

## Tabular Time History Report

The Tabular Time History Report lists data saved for each interval, in time correlated columnar form, which is compatible with common database programs, such as Lotus 1-2-3.

```

# OF PERIODS: 535 MODE: CONTINUOUS
PERIOD LENGTH: 0:01:00
TIME HISTORY CUTOFF: 80dB
Ln(1): 10.0% Ln(2): 99.9%

*DATE: 10/24/90

"INT" "TIME" "Lav" "Lmax" "Lpk" "L1" "L2"
1 " 8:05:00" 92.6 101.3 117.2 96 84
2 " 8:06:00" 95.0 97.2 118.6 95 88
3 " 8:07:00" 95.6 96.5 126.5 95 91
4 " 8:08:00" 92.4 96.6 129.8 95 82
5 " 8:09:00" 88.4 98.8 123.2 93 80
    
```

## Graphical Time History Report

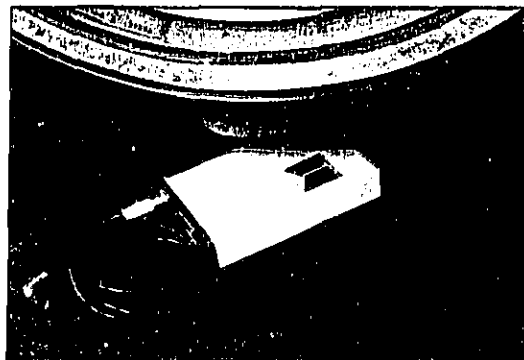
The Graphical Time History Report furnishes time correlated data saved for each interval, in both graphic and numerical form.

```

** TIME HISTORY REPORT **
# OF PERIODS: 535 MODE: CONTINUOUS
PERIOD LENGTH: 0:01:00
TIME HISTORY CUTOFF: 80dB
Ln(1): 10.0% Ln(2): 99.9%

INTI START Lav Lmax Lpk
TIME TIME ET L1 L2

1 10/24/90 92.6 101.3 117.2 * *
8:05:00 0:01:00 96 84
2 10/24/90 95.0 97.2 118.6 **
8:06:00 0:01:00 95 88
3 10/24/90 95.6 96.5 126.5 **
8:07:00 0:01:00 95 91
4 10/24/90 92.4 96.6 129.8 * *
8:08:00 0:01:00 95 82
    
```

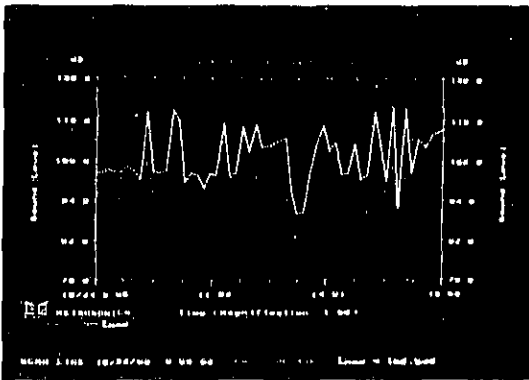


Rugged, one-piece aluminum housing withstands severe environments

# Create Graphs for Quick Analysis

## View Entire Exposure

When graphing, you can choose to graph the average sound level, maximum sound level or both.



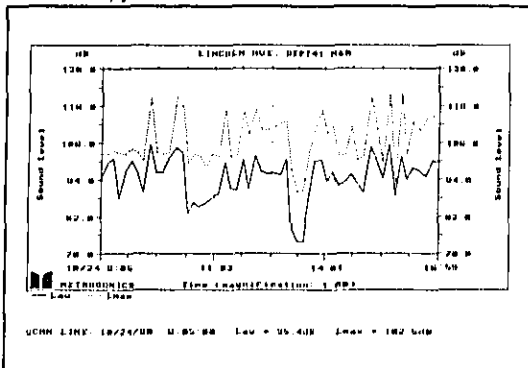
By viewing the entire test in one graph, high noise conditions and their times of occurrence are quickly determined. Powerful graphing features include zooming-in on specific areas of interest, performing "what-if" analysis to see the effects of proposed changes, placing text on the graph, etc.

## Scan Line

A scan line feature allows you to move a line across the graph while the software displays the average and maximum values at the specific time on the graph. This gives you exact numbers and eliminates the need to approximate.

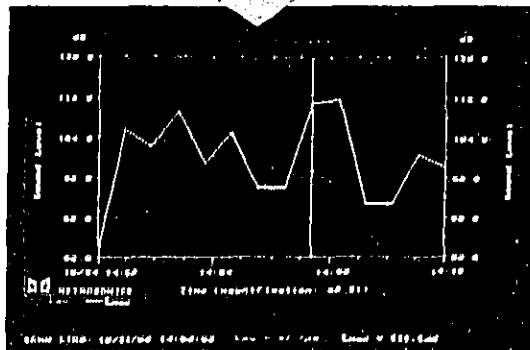
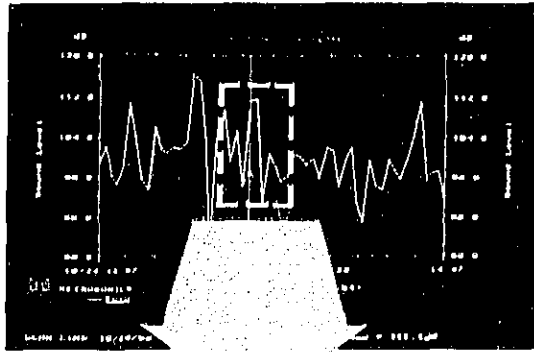
## Graphic Printout

By pressing one function key, the graph can be printed for hard copy records.



## Zoom-In for Details

An exceptional graphing feature is the ability to zoom in and enlarge certain time periods for a more detailed examination.



## Review Exceedance Data

A listing of only the tests in which the exposure exceeded a user-specified limit may be generated. This saves time by indicating which files may require further evaluation.

DIRECTORY LISTING FOR C:\METROPH\										PAGE 1
NO.	FILENAME	ENV	DATE	TIME	EMPLOYEE NAME	DEPARTMENT	CURRENT FIELD 1	CURRENT FIELD 2	CURRENT FIELD 3	CURRENT FIELD 4
5	31003	THA	10/24/90	10:24:00	Richard A. Richardson	Mechanical Ass'y	124	10/24/90	10:24:00	10:24:00
4	31002	NO.1	10/24/90	10:24:00	William M. Ryan	Maintenance & Repair	104	10/24/90	10:24:00	10:24:00
3	31006	NO.1	10/24/90	10:24:00	William M. Ryan	Maintenance & Repair	104	10/24/90	10:24:00	10:24:00
2	31001	NO.1	10/24/90	10:24:00	William M. Ryan	Maintenance & Repair	104	10/24/90	10:24:00	10:24:00

# Save Time With Powerful Software!

**Manages Your Hearing Conservation Program For You!**

**Menu Driven - Extremely Easy to Use**

**Allows Immediate Viewing and Printing of Data in Graph and Report Form**

**Zooms-In on Specific Areas of Interest**

**Retrieves db-3100 Data and Saves on Disk**

**Permits Database Search for Individuals, Test Locations, Over-Exposure, etc.**

Metrosonics ms-3100 Metrosoft is a custom software package, developed for use in monitoring and evaluating noise exposure. The package is in full color, totally menu-driven and extremely easy to use. It operates with IBM PC, XT, AT, PS/2 or compatible computers. In addition, it supports IBM or Epson compatible dot matrix printers, HP Laserjet printers, and others. For added simplicity, there are help screens available every step of the way.

## Programming is a Snap

With ms-3100, the db-3100 Noise Monitor can be set up in a matter of seconds by simply filling in a form.

```

Scheduled Test Status On
Scheduled Test Date 10-21-90
Scheduled Test Time 00:00:00
Scheduled Test Length 00:55:00

Program Security Code No
Security Code 121
Statistics to Display at Logger
Low (db cutoff) No
Low (db cutoff) 01 Yes
Low (db cutoff) 02 No
TWA (db cutoff) No
TWA (db cutoff) 01 Yes
TWA (db cutoff) 02 No
Squawk Yes
Lpk Yes
Base (db cutoff) 01 Yes
Frag Base (db cutoff) 01 Yes
Base (db cutoff) 02 No
Frag Base (db cutoff) 02 No

Printer Band Rate 1200
Report Type Complete

Response Rate Slow
Filter A-weight
Exchange Rate 5:1
Cutoffs 020 90dB
Ceiling 115dB
Base Criterion Limit 90dB
Base Criterion Length 10 Hours

Time History Logging Mode Continuous
Time History Period Length 00:01:00
Time History Statistics:
Show Low: Yes Day cutoff 01 Yes
Show High: Yes
Show Lpk: Yes
Show Time History Lpk: Yes
Time History Lpk: 10.0h 99.5h
Avg Lpk: 0.0h 10.0h 58.0h 99.5h

F1 HELP F2 SAVE SETUP F3 PROGRAM LOGGER F10 EXIT
PRESS - OR - TO SELECT YOUR CHOICE
    
```

The user may choose various options, such as which summary statistics to display; which time history statistics to save and how often; exchange rate; cutoffs; dose threshold, etc. Once the logger is set up for a test, it will retain the set-up information until you change it. Also, these configuration files may be saved on disk for re-use.



*Compact and lightweight, the db-3100 is perfect for personal noise monitoring*

## Sorts and Retrieves Data

ms-3100 allows recorded data to be quickly transferred from the db-3100 to a computer and saved on disk.

Before transferring the data, information may be assigned to the file by filling in the desired information fields (test location, employee name, department, comments, etc.), which can be used as data base sorting options.

```

DEFINE SEARCH CRITERIA

Fieldname to g 3100121
Test Date (month/year)
Test Time (hh:mm:ss)
Serial Number

Test Location LINCOLN BAY ASSEMBLY
Employee Name WILLIAM R. ROSS
Employee Number 10431394
Department MAINTENANCE & REPAIR

Comment Field 1 FILTER REPLACEMENT OFFER
Comment Field 2 ANY V LINE OPERATIONAL

Numeric Cutoff 01 02 03 04 05
Threshold cutoff: 05 020 No Low:115.0dB No
Low:100.0dB

F1 HELP F2 BEGIN THE SEARCH F3 QUIT LAST FILE F4 PRINT DIRECTORY F10 EXIT
PRESS - OR - TO SELECT YOUR CHOICE
    
```

To perform data analysis, the user simply chooses to see the stored test results. Metrosoft lets you search for files by specifying one or more of the information fields that were assigned to the data file. The software will list all of the files that meet the search criteria. If desired, this may be a list of incidences where a certain exposure limit was exceeded, providing you with a report of who should be included in a hearing conservation program, along with basic compliance data. Then, you just choose which file you want to examine, and whether you want to see a graph or a report.

## Specifications

### INPUT

**Microphone:** Metrosonics 1/4 in. pendant microphone, rugged miniature ceramic type, with 1-meter captive cable.  
**Operating Range:** 40 to 140 dB.  
**Dynamic Range:** 100.0 dB.  
**Amplitude Linearity:**  $\pm 0.7$  dB.  
**Detector:** True RMS.  
**Sampling Rate:** 16 samples/sec (Slow); 64 samples/sec (Fast).  
**Peak Range:** 28 dB starting at 115 dB.  
**Applicable Standards:** Type 2: ANSI S1.4-1983; ANSI S1.25-1978; IEC 651; IEC 804.

### USER-PROGRAMMABLE PARAMETERS

**Frequency Response:** A or C-weighted.  
**Averaging Response:** Slow or Fast.  
**Exchange Rate:** 3 dB (Leq), 4 dB (L<sub>dod</sub>), 5 dB (L<sub>osha</sub>), or 6 dB.  
**Criterion Level:** 40 to 140 dBA.  
**Dose Period:** 4, 6, 8, 10, 12, 16 or 18 hours.  
**Cut-Off (Threshold) Levels:** Two, 40 to 140 dBA.  
**Coiling Levels:** 40 to 140 dBA.  
**Time:** Date and time of real-time clock. Date, time and length (up to 72 hrs) of scheduled run.

### TIME HISTORY INTERVALS

**Interval Length:** 1 second to 24 hours.  
**Data Saved:** L<sub>av</sub>, L<sub>max</sub>, L<sub>pk</sub>, up to two L<sub>n</sub> (0 to 99.9%); any or all.  
**Storage Capacity:** 725 intervals if all data saved.

### OPERATING CONTROLS

**Push Buttons:** 3 sealed.  
**Security Code:** 3 digit; user selectable.

### DATA DISPLAY

**Display:** Large 3 1/2 digit LCD display; 0.1 dB resolution.  
**Sound Level:** Current sound level updated 4 time/sec.

### DIGITAL COMMUNICATIONS

**Interface:** 3-wire RS-232C; uses X-on, X-off.  
**Baud Rate:** 300, 1200, 4800 Formatted, 4800 Binary.  
**Report Width:** 80-column.  
**Format:** ASCII, 1 start bit, 8 data bits, 1 stop bit.  
**Connector:** Switchcraft TB5M.

### OUTPUT MODES

**Printer:** Preformatted data for RS-232C printer or terminal.  
**Memory Dump:** Unformatted data to computer.  
**Header:** Precedes each report. Identifies logger model, serial number and software version, date and time of report, calibrator information, time and date of last calibration, display range, weighting, exchange rate and averaging response.

### ENVIRONMENTAL

**Temperature:** -20 to +60° C. LCD working temperature -10 to +50° C.  
**Humidity:** To 90% non-condensing. Short term complete water immersion, except microphone.

### POWER

**Operational:** At least 40 hours @ 25° C.  
**Data Retention:** One month.  
**Battery:** 9V 1604A, primary.

### PHYSICAL

**Case:** Anodized aluminum extrusion.  
**Size:** 3.0 x 4.8 x 0.9 inch (7.6 x 12.2 x 2.3 cm)  
**Weight:** 12 oz (0.3 kg)

Specifications subject to change without notice.

## Ordering Information

### db-3100 METROLOGGER SYSTEM

**db-3100 Metrologger:** Wearable dosimeter, integrating sound level meter, true peak sound level meter and time history monitor, with display and RS-232 output. Requires microphone.  
**db-3100C Metrologger:** db-3100 plus microphone, microphone shield, clothing clip and carrying case.  
**db-3100WA Metrologger with accessories:** db-3100 plus microphone, microphone shield, clothing clip, carrying case, printer/computer interface cable, programming disk, screwdriver and storage case.  
**db-3100MK Metrologger Kit:** db-3100WA plus acoustical calibrator.

### db-3100 FIELD KITS

**ek-3100 Metrologger Kit:** db-3100 Metrologger conveniently packaged in a rugged briefcase complete with microphone, microphone shield, clothing clip, carrying case, printer/computer interface cable, acoustical calibrator, tripod, spare batteries, programming disk and screwdriver.  
**fk-3100B-1 Metrologger Kit:** Same as ek-3100 except includes a dp-426 portable printer instead of a tripod.  
**fk-3100-X-5 Metrologger Kit:** 5 db-3100 Metro-loggers conveniently packaged in a rugged briefcase, complete with 5 each microphones, microphone shields, clothing clips, carrying cases and spare batteries, with 1 each acoustical calibrator, printer/computer interface cable, programming disk and screwdriver.  
**fk-3100-X-4 Metrologger Kit:** Same as fk-3100-X-5 except with 4 Metro-loggers and accessories instead of 5.  
**fk-3100-X-3 Metrologger Kit:** Same as fk-3100-X-5 except with 3 Metrologgers and accessories instead of 5.  
**fk-3100-X-2 Metrologger Kit:** Same as fk-3100-X-5 except with 2 Metrologgers and accessories instead of 5.  
**fk-3100-X-1 Metrologger Kit:** Same as fk-3100-X-5 except with 1 Metrologger and accessories instead of 5.

Please indicate a suffix (-X) when ordering:

- A = Complete kit without printer or computer
- D = Complete kit with dp-426 ink jet printer

NOTE: Kits D includes transit case rather than briefcase.

### db-3100 METROLOGGER ACCESSORIES

**ba-004:** Replacement batteries  
**ca-3004:** Adapter cable  
**ca-3025:** Microphone extension cable, 25 ft.  
**ca-3095:** Microphone extension cable, 95 ft.  
**ca-3100:** RS-232C printer/computer interface cable  
**ca-303:** Briefcase (for ek-3100)  
**cc-304:** Carrying case (for db-3100)  
**cc-304H:** Heavy duty carrying case (for db-3100)  
**cc-306:** Briefcase (for fk-3100A)  
**cc-3100:** Briefcase (for fk-3100B)  
**cl-304:** Acoustical calibrator  
**ma-250:** 1/4 in. microphone calibration adaptor  
**mk-3100R:** Pendant microphone  
**ms-206:** Clothing clip  
**mt-3100:** Tripod with mounting adapter & boom  
**sc-3100:** Storage case (for db-3100WA and db-3100MK)  
**tc-3100-5:** Transit case (for fk-3100D)  
**wa-307:** Foam microphone shield

### PRINTERS/COMPUTERS

**dp-426:** Portable ink jet printer; compact and battery operated  
**dp-428:** Portable printer; compact and battery operated

### SOFTWARE

**ma-3100 Metrosoft:** IBM menu-driven software.

Metrosoft is a registered trademark of Metrosonics, Inc. IBM PC, XT, AT, PS2 are registered trademarks of IBM Corporation. Lotus 1-2-3 is a registered trademark of Lotus Corporation.



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