

BIG-LITTLE DPM CONNECTIONS

Model	9V (BATTERY) POWER BLXXX101, BLXXX102	+5VDC POWER BLXXX301, BLXXX302	±5VDC POWER BLXXX201, BLXXX202
BL100 BL130			
BL101 BL102 BL131 BL132 BL631 BL632			

- CAUTION:** 1. On 9V (battery) power applications the input **MUST** be isolated from battery.
 2. On +5V, 5V, 10-30V and ±5V power applications the common-mode voltage between INLO and power supply common **MUST** be less than ±2VDC.
 3. DO NOT solder to .025 square pins.

TERMINALS AND DESCRIPTIONS

V+, V-	Power supply connections.	ROH	On board reference terminal.
TST	Ground terminal when +5V power is used.	D1	Decimal point locators
COM	Analog common.	D2	as follows:
INLO	Display inputs. Display is negative if INHI is lower than INLO.	D3	D1—left of hundreds digit
INHI			D2—left of tens digit
RFL	Differential reference inputs.	CLK	Hold input (option).
RFH			

00-970110 D 10-93

BIG-LITTLE DPM PANEL CUTOUTS

Model BL100	SURFACE MOUNT
Models BL100 BL101 BL102	WINDO (FLUSH) MOUNT
Models BL130 BL131 BL132 BL631 BL632	BEZEL MOUNT

MODUTEC

Modutec Made in U.S.A. 1-800-METERS-1

PAT. No. 4,728,946

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NOTES: UNLESS OTHERWISE SPECIFIED.

C75030A MCWHE02 WALL MOUNT HE/O2 ANALYZER
 C75030B MCWHE02 WALL MOUNT HE ANALYZER
 C75030C MCPHE02 PORTABLE HE/O2 ANALYZER
 C75030D MCPHE02 PORTABLE HE ANALYZER

1. SEE SHEET 2 FOR PORTABLE UNIT ASSEMBLY

2. WIRE CONNECTOR PER B75117, PLUG CONNECTOR INTO J4 ON MAIN PCB

3. USE BLUE LOCITE

4. INSTALL SENSOR & PLUG CABLE INTO J1 ON MAIN PCB

5. NOTE: THE KNOB IS INCLUDED WITH SWITCH

6. BREAK OFF THE MAIN PCB AND INSTALL PCB TAB & O-RING AS INDICATED WITH SENSOR FACING DOWN

7. INSTALL BEZELS WITH TWO TINY DROPS OF EL00 PRIOR TO ATTACHING THE PCB

8. THIS O-RING IS INCLUDED WITH THE SENSOR

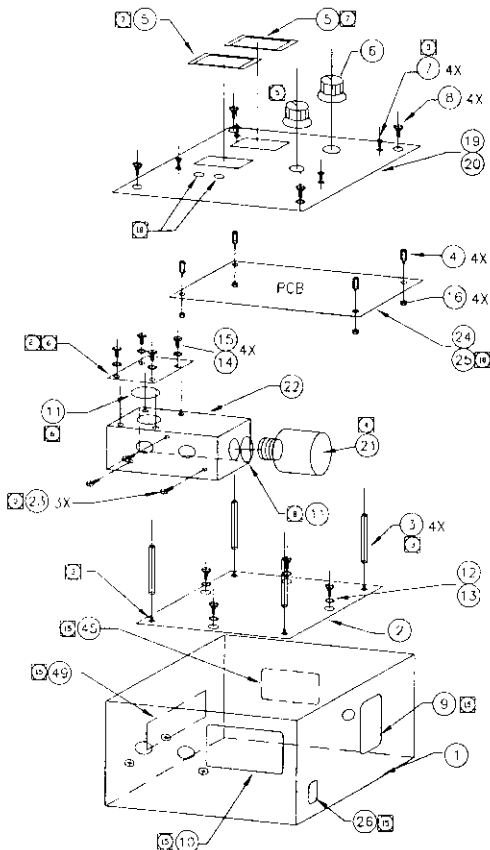
9. PLUG BATTERY CONNECTOR INTO J2 ON MAIN PCB

10. ASSEMBLY WITH TEFLON TAPE

11. HELIUM ONLY ANALYZERS (C75030B, or D)

12. INSTALL THE 4 SET SCREWS WITH 0.25" PROTRUDING ABOVE THE SURFACE

WALLMOUNT UNIT SHOWN C75030A / C75030B



53	-	-	REF: C75030C-RS	ROUTE SHEET
ITEM	A	B	C	D
			PART #	DESCRIPTION

REVISIONS

REV	DESCRIPTION	DATE	APP	REV BY
3	SEE SHEET 1			KFP

52	2	2	-	-	CP2260	NIPPLE 1/8 NPT X 3/16
51	0	0	1	1	B75610	TAG LOGO TAG
50	0	0	2	2	----	4-40 X 1/8" PAN HD
49	1	1	1	1	B75602	TAG HE/O2 CHART
48	0	0	4	4	----	4-40 X 0.5" SS SET SCREW
47	0	0	0	1	B75028C	PORTABLE HE ONLY PCB CAL
46	0	0	1	0	B75028A	HE/O2 PORTABLE PCB CAL
45	1	1	1	1	----	S/N TAG
44	1	1	1	1	P1244	TRIM POT TOOL
43	0	0	2	2	F1708	#4 SS CAPTIVE SCREW
42	0	0	4	4	----	#4-40 SS CAPS NUTS
41	0	0	4	4	----	#4 NYLON WASHER
40	0	0	1	1	B75401	LOW PRESSURE POWER HOSE SAMPLING ADAPTER
39	0	0	2	2	CP2260	NIPPLE 1/8 NPT X 3/16
38	0	0	0	1	T1352	5FT OF 5/16" TUBING
37	0	0	1	1	L328	LIGHT PIPE
36	0	0	0	1	B77345	TAG HE OPERATION NOTES
35	0	0	1	0	B75370	TAG OPERATION NOTES
34	0	0	1	1	B75366	SCREENED BATTERY COVER
33	0	0	0	0	B90	BATTERY C SIZE
32	0	0	1	1	C74690A	SENSOR BLOCK PVC
31	0	0	1	1	CP1311	CONNECTOR 3 PIN
30	0	0	1	1	BK42	BATTERY HOLDER 4 C WITH LEADS
29	0	0	1	0	C74692C	PANEL HE PORTABLE
28	0	0	1	1	C74692B	PANEL HE/O2 PORTABLE
27	0	0	1	1	E739	ENCLOSURE PORTABLE YELLOW
26	1	1	1	1	B77345	TAG HE ONLY PORTABLE
25	0	1	0	0	A65849	TAG, CE MARK
24	1	0	0	0	B75028D	PCB ASSY HE ONLY, WALL-MOUNT
23	3	3	0	0	B75028B	PCB ASSY HE/O2, WALL-MOUNT
22	1	1	0	0	----	#6-32 X 1/4" FLT HD
21	0	1	0	1	C74690B	SENSOR BLOCK
20	0	1	0	1	B75386	O2 SENSOR PLUG
19	1	0	0	0	C74692D	SCREENED PANEL HE ONLY VERSION
18	4	4	6	6	C74692A	SCREENED PANEL HE / O2 VERSION
17	1	1	1	1	CP1314	MOLEX PINS
16	4	4	4	4	CP1313	CONNECTOR 4 PIN MOLEX
15	4	4	4	4	----	#4-40 KEPS NUT
14	4	4	4	4	----	#6 LOCK WASHER
13	4	4	0	0	----	6-32 X 1/4" PAN HD
12	4	4	0	0	----	SCREW M4 X 6 MM PAN HD
11	1	2	1	2	----	WASHER LOCK #8
10	1	1	0	0	026	O-RING I/C SENSOR
9	1	1	0	0	B75367B	TAG, SAMPLE INLET
8	4	4	0	0	B75367A	TAG, POWER INLET
7	4	4	4	4	----	SCREW FLT-HD 6-32 X 5/8 SS
6	1	0	1	0	----	SCREW FLT-HD 4-40 X 1/4" SS
5	2	1	2	1	K124	KNOB, 1/4" SHAFT
4	4	4	4	4	B62R	BEZEL, DPM METER
3	4	4	0	0	S1269	STAND-OFF M/F 0.438 HEX
2	1	1	0	0	S1341	STAND-OFF 6-32 X 2" HEX AL
1	1	1	0	0	B74693	MOUNTING PLATE, WALL-MOUNT UNIT
					B75114	ENCLOSURE, GRAY
ITEM	A	B	C	D	PART #	DESCRIPTION

THIS DRAWING IS
IN ECO PROCESS

ECO No.

ECO DATE

DO NOT SCALE DWG

TOLERANCE UNLESS OTHERWISE
 SPECIFIED: ANGULAR ±1/2°
 LINEAR { XX = ±.1
 XXX = ±.02
 XXXX = ±.010

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S/	SIGNATURES	DATE
V/	DRFT: K F P	12/06/02
N/	CHK:	
P/	APPR:	
O/	ENGR: KARL PENSON	
F/	C.O.:	
REFERENCE	CAD ID: C75030-2	

TITLE	FINAL ASSEMBLY MIXCHEK HELIUM/OXYGEN ANALYZER
SCALE	NONE
SIM	
SHEET	2 OF 2
DATE	NOTED
WNG NO.	C-75030
REV	3