

# LOW PRESSURE SWITCHING MONITOR

Prevents Unwanted Shutdown

High and Low Limit Monitor

Measures Positive and Negative Pressure

Front Panel Validation with EASY CAL™





## LOW PRESSURE SWITCHING MONITOR



The Low Pressure Switching (LPS) Monitor measures differential pressure. High and

Low limit alarms are independently set from front panel with configurable low warning and low alarm settings.

LED display indicates the sensed pressure. When preset limit is exceeded, the LED signals an alarm condition by turning red. The adjustable "stand alone" time delay

prevents intermittent tripping due to brief transient upsets.

Four LPS monitors will fit in the same space as one older gauge/switch.

### **APPLICATIONS**

Hepa Filter Monitor and AlarmFume HoodsExhaust MonitoringLevel SensorCoating and Painting BoothControl PanelsClean Room Pressure MonitorHVAC SystemsVentilating SystemsFilling Systems

#### **SPECIFICATIONS**

Indicating Pressure Ranges: 0.2" to 50" WC (50 Pa to 20KPa) F.S. Media: Inert non-conductive gas or dry air

**Accuracy:** 1% of full scale at 20°C

Overpressure: ±14.5 psi (80"WC for under 1"WC ranges)

Operating Temperature:  $0^{\circ}\text{C to }40^{\circ}\text{C }(32^{\circ}\text{F to }104^{\circ}\text{F})$ Storage Temperature:  $-40^{\circ}\text{C to }60^{\circ}\text{C }(-40^{\circ}\text{F to }160^{\circ}\text{F})$ 

**Zero Adjustment:** Zero via front panel screw adjustment to  $\pm 10\%$  F.S.

**Display:** 3.5" digit, 0.30" high red LED

Analog Output: 4-20 mA current sinking or 0 to 10 VDC Enclosure: 1/16th DIN 43700, panel mounted

polycarbonate plastic case

Alarm Relay Contacts: Latching isolated form "A" high and low contacts,

1A @ 30VDC

Weight: 7.0 ounces (200 grams) max.

Power: 12-24 VAC/VDC, 1.4 watts

Wiring: Pluggable terminal block, 18-26 AWG

#### **FEATURES**



- Small 1/16 DIN size for easy panel mounting
- Selectable time-delay eliminates nuisance alarm
- LED display of process and high and low alarms
- Isolated form A contacts
- 4-20 mA or 0-10 VDC analog output
- Removable terminal block for 18-26 AWG wire
- Convenient power requirement 12-24 VAC/VDC
- Proven solid state sensors
- Analog circuit design eliminates potential microprocessor software problems
- Compliant with UL 508 and CE EN 61326 EMI requirements
- Compound ranges available
- Available ranges from 0.2" WC to 50" WC (50 Pascal to 20KPa)

#### **How To Order - LPS Product Designation Code**

Low Pressure Monitor — Differential pressure indicator with adjustable switch settings.

			LPS	2W	N	42	С	-M01
Build a part number by selecting appropriate codes for each feature category. Example: LPS2WN42C-M01		Low-Pressure Analog Switch	Range	Туре	Analog Output	Accessories	Option Codes	
				2.0″H <sub>2</sub> 0	Negative	4-20 mA	Waterproof Cover	Non- Latching Alarm
MODEL	DESCRIPTION							
LPS	12-24 VDC/VAC, 100 m							
PRESSURE RANGES	Inches H <sub>2</sub> 0	Pascals						
R2W	0.2	. 0300.3						
R5W	0.5							
1W	1							
2W	2							
5W	5							
10W	10							
20W	20							
50W	50							
R05K		50						
R1K		100						
R2K		200						
R5K		500						
1K		1000						
2K 10K		2000						
20K		10000 20000						
		20000						
DISPLAY TYPE	Danisha	7 t D						
P	Positive	Zero to + Ra	nge					
N C	Negative Compound (4-12-20)	Zero to - Ran - Range to +	ige Banga					
	Compound (4-12-20)	- hallye to +	naliye					
ANALOG OUTPUT								
00	None							
10	0-10 Volts							
42	4-20 mA						J	
ACCESSORIES								
P	Panel Adapter							
C	Waterproof Cover							
M	Wall Mount for Easy Cal™	only only						
OPTION CODES								-
M01	Non-Latching Alarm							
M10	Easy Cal™ - Offered in 4-	20mA only						

M10 Easy Cal™ - Offered in 4-20mA only

#### 3 Year Warranty





#### UNITED ELECTRIC CONTROLS

#### Precision Sensors Division

50 Seemans Lane Milford, CT 06460 USA

Telephone: 203 877 2795 Fax: 203 877 8752

Email: sales @ precisionsensors.com



BHA4K0305 www.precisionsensors.com

#### LPS SERIES WITH EASY CALTM

### Save time and money with EASY CAL™ in-place calibration and certification to 21 CFR II.

The front panel pressure input allows for calibration and certification without removal. High and Low limit alarms are independently set from front panel. LED display indicates the sensed pressure. When preset limit is exceeded, the LED signals an alarm condition by turning red. The adjustable "stand alone" time delay prevents intermittent tripping due to brief transient upsets.

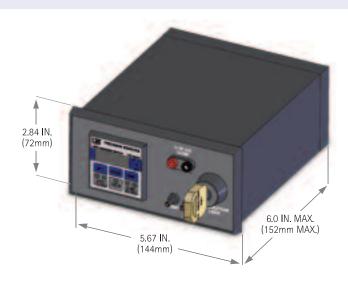
#### **SPECIFICATIONS**

Span: Front panel adjustment to  $\pm 10\%$  F.S. Enclosure: 4" x 6" panel mounted, or 3" x 5" x 6"

surface panel mount

#### RANGE AND DISPLAY RESOLUTION

Range	Resolution	Range	Resolution
0.2" WC	0.200 x 0.001	50 Pa	50.0 x 0.1
0.5" WC	0.500 x 0.001	100 Pa	100 x 1
1.0" WC	1.00 x 0.01	200 Pa	200 x 1
2.0" WC	2.00 x 0.01	500 Pa	500 x 1
5.0" WC	5.00 x 0.01	1000 Pa	1000 x 1
10.0" WC	10.0 x 0.1	2 KPa	2.00 x 0.01
20.0" WC	20.0 x 0.1	10 KPa	10.0 x 0.1
50" WC	50.0 x 0.1	20 KPa	20.0 x 0.1



#### **FEATURES**



- EASY CAL<sup>™</sup> for front panel calibration/certification
- Available ranges from 0.2" WC to 50" WC (50 Pascal to 20KPa)
- Measures both positive and negative pressure
- Bright LED display of process and alarm state
- 4-20 mA analog output standard
- High and low limit monitor
- Selectable time-delay eliminates nuisance alarm
- Analog circuit design eliminates potential microprocessor software problems
- Compact DIN enclosure
- Compliant with UL508 and CE EN 61326 EMI