UE

EASY CAL™

LOW PRESSURE SWITCHING MONITOR

Prevents Unwanted Shutdown

High and Low Limit Monitor

Measures Positive and Negative Pressure
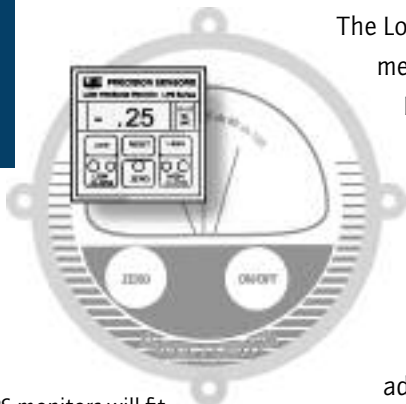
Front Panel Validation with EASY CAL™

PRECISION SENSORS

CE

LOW PRESSURE SWITCHING MONITOR

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

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.

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)

APPLICATIONS

Hepa Filter Monitor and Alarm	Fume Hoods
Exhaust Monitoring	Level Sensor
Coating and Painting Booth	Control Panels
Clean Room Pressure Monitor	HVAC Systems
Ventilating Systems	Filling 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°C to 40°C (32°F to 104°F)
Storage Temperature: -40°C to 60°C (-40°F to 160°F)
Zero Adjustment: Zero via front panel screw adjustment to ±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

How To Order - LPS Product Designation Code

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

	LPS	2W	N	42	C	-M01
Build a part number by selecting appropriate codes for each feature category. Example: LPS2WN42C-M01	Low-Pressure Analog Switch	Range	Type	Analog Output	Accessories	Option Codes
		2.0"H$_2$O	Negative	4-20 mA	Waterproof Cover	Non-Latching Alarm

MODEL   **DESCRIPTION**
LPS   12-24 VDC/VAC, 100 mA, 1.4 Watts

PRESSURE RANGES

	Inches H$_2$O	Pascals
R2W	0.2	
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		2000
10K		10000
20K		20000

DISPLAY TYPE

P	Positive	Zero to + Range
N	Negative	Zero to - Range
C	Compound (4-12-20)	- Range to + Range

ANALOG OUTPUT

00	None
10	0-10 Volts
42	4-20 mA

ACCESSORIES

P	Panel Adapter
C	Waterproof Cover
M	Wall Mount for Easy Cal™ only

OPTION CODES

M01	Non-Latching Alarm
M10	Easy Cal™ - Offered in 4-20mA only

3 Year Warranty

AS9100
ISO 9001:2000
ANAB
Intertek

UE
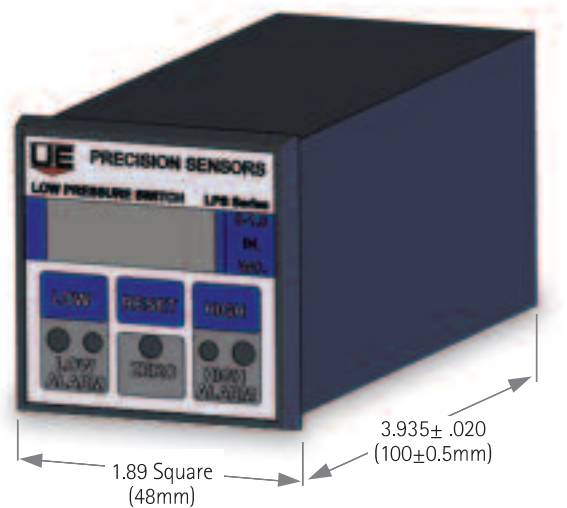# UNITED ELECTRIC CONTROLS
Precision Sensors Division

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Email: sales@precisionsensors.com
www.precisionsensors.com

UE PRECISION SENSORS
LOW PRESSURE SWITCH LPS Series
LOW RESET HIGH
LOW ALARM   ZERO   HIGH ALARM

3.935± .020
(100±0.5mm)

1.89 Square
(48mm)

BHA4K0305

LPS SERIES WITH EASY CAL™

FEATURES

Save time and money with EASY CAL™ in-place calibration and certification to 21 CFR II.
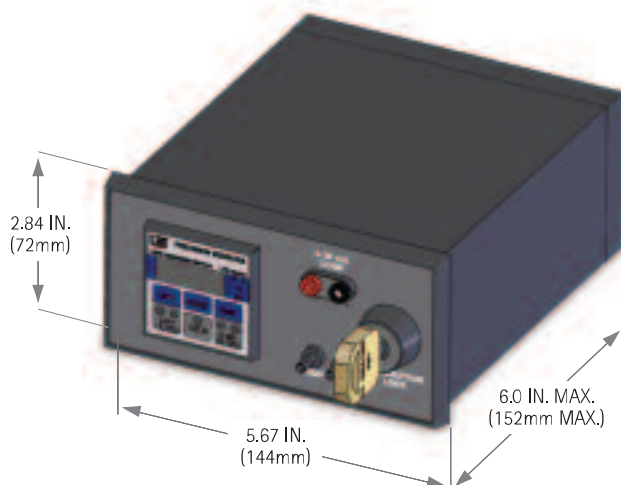
The front panel pressure input allows for calibration and certification without removal. High and Low limit alarms are independently set from front panel. LED display indicates the sensed pressure. When preset limit is exceeded, the LED signals an alarm condition by turning red. The adjustable "stand alone" time delay prevents intermittent tripping due to brief transient upsets.

SPECIFICATIONS

Span:	Front panel adjustment to ±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

- EASY CAL™ 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

2.84 IN. (72mm)
5.67 IN. (144mm)
6.0 IN. MAX. (152mm MAX.)