

LM-P-PRO Series

The **LM-P-PRO series of differential pressure data logger / indicator** is very helpful in monitoring differential pressure especially for clean rooms. Large 0.56" LED digital display eliminates the human error in reading the data. The device is field programmable for most common of the eight measuring units. The decimal point gets selected automatically for displaying with best resolution. It also has a feature to set the high and low alarm limit. Whenever the limit is crossed, appropriate LED indicates the alarm condition. Display also starts blinking, for better attention.

Programming of various parameters like unit, alarm limits, calibration parameters (zero and span), communication parameters etc. are all settable through 4 keys. Data is scanned every second. It has RS485 2/4 wire communication port to connect to any SCADA using MODBUS RTU/ASCII protocol. User can get the current data and device identification information over protocol.

Device also has an optional memory to store the data. It is possible to store the data at an interval between 1 second to 18 hours interval. The stored data can only be retrieved through our web-based data acquisition software gtekNet™. It is also possible to configure the entire device from this software. gtekNet™ enables the user to see, modify, generate report with 21CFR Part 11 compliance using any standard browser from anywhere over network connected device.



Features:

- Differential Pressure
- 8 engineering units of measure → Pascal, KPA, mBar, mmWC, inWC, mmHg, inHg, PSI
- Digital Display
- Alarm set point high / low
- Alarm Indicator
- Wide power supply 5-30V DC
- RS 485 MODBUS compatible
- SS 314 Front facia

Specifications

Display Details

Display	Digital, 4 digits ultra-bright 0.56" LED Numeric/semi alphabetic display
Status Indicator	Unit Indication, High and Low Alarm Indication, and storage Indication
Display Refresh rate	1 reading / second

Analog Input Details :

Input Media	Air and non-combustible and non-corrosive gases. For Wetted Materials, consult factory.
Pressure Sensor	MEMS sensor either Differential or Absolute pressure
Measurement parameters [8 units]	Pascal (PA) ,Kilo pascal (KPA), milibar (mbar), psi (PSI), mm of Water Column (mmWC), inch of Water Column (inWC), mm of Hg (mmHG), inch of Hg (inHG)
Measuring range Pressure	Refer Order Code; others available on request
Pressure Accuracy	± 1.5 %FSD
Pressure Input port	Quick Connect/Disconnect port 4 mm tube ID

Environmental conditions

Temperature	(Operating) 5 to +50 °C (Storage) -40 to +125 °C
Relative Humidity	(Operating) 10 to 80 % RH Noncondensing (Storage) 5 to 90 % RH Noncondensing
Altitude	<2000 meter

Batch Storage Data/Memory Details

Start / Stop Batch	Remote Start – Stop through gtekNet™
Store Interval	0 To 240 min in Step of 1 Sec
Memory Size	4000 records total Rollover

Power Requirements

Supply Voltage	5 – 30 V DC, 1 A (DC Adapter Operated)
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Communication Details

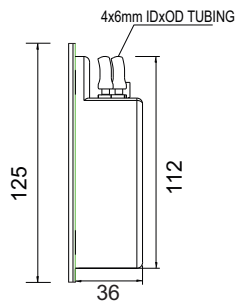
Communication Protocol	EIA 2/4 wire RS 485 Modbus RTU / ASCII Protocol
Baud rate	User settable – 4.8k, 9.6k, 19.2k & 38.4k bps
Parity	User settable – None, Even & Odd
Device Address	1 to 240 – User settable

Alarm Details

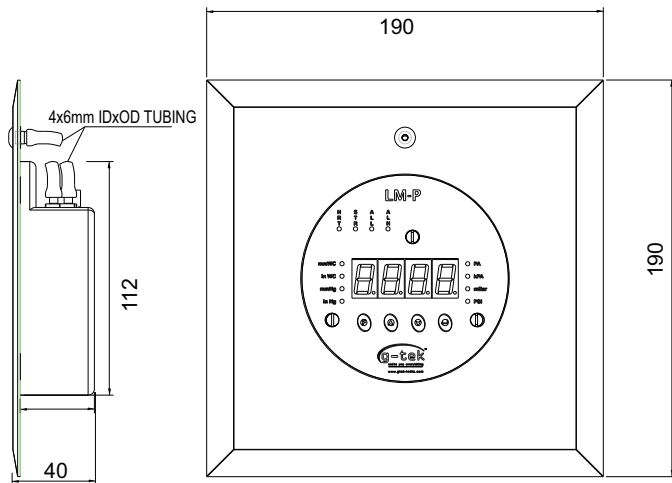
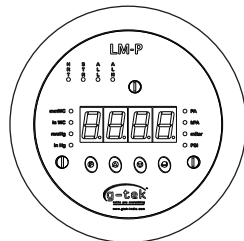
Alarm Set-point	High/Low individually settable
Buzzer	Audible alarm on high/low condition
Alarm high/low status	High/low individual status LEDs

Mechanical Dimensions and Mounting

Housing Material	ABS Plastic
Mounting Orientation	Mounting unit in vertical plane
Size (L x W x D) mm	190 x 190 x 40
Panel Cutout (Diameter) mm	115
Housing (Diameter) mm	112
Weight	500gms approx



Sensor Type: Pressure-R



Sensor Type: Pressure-S

Panel Cutout:

Dimension L x W x D (mm) Ø 115 x 40 Deep Approx

Overall Dimension:

Square Bezel L x W x D (mm) 190 x 190 x 40 Approx

Round Bezel L x W x D (mm) Ø 125 Approx

Select your ORDER Code:



Example ORDER Code:



Code : Series

6 : 6X Pro

Code : Sensor Type

3 : Pressure-Round Bezel

4 : Pressure-Square Bezel

Code : Pressure Range

1 : +/- 5mbar

2 : +/- 10mbar

3 : +/- 20mbar

4 : +/- 40mbar

5 : +/- 100mbar

9 : Other

Code : Communication Type

0 : None

2 : RS-485

5 : RF

Code : Software Type

2 : None

4 : Gteknet™ Non Secure

5 : Gteknet™ Secure

Code : Memory Type

0 : No Memory

1 : Memory



Dealer / Representative

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- Strip Chart Recorders
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The specifications given above are an overview, and may be or may not be available in all product variants, or at an additional cost. The company reserves the right to change the specifications without prior notice, as the company follows a continual improvement philosophy for its products.