MODUS Titan Series Pressure Indicator/ Transmitter with Alarms

Pressure indicator, switch and programmable transmitter in a convenient, panel-mount package

Features

- Easy-to-read 3½ digit LCD display
- Membrane style keypad for fast wipe down
- 4-20 mA or 0-5 VDC Analog output available
- Programmable Hi and Lo relay set points
- $C\epsilon$ - approved

Applications

Industrial Applications

- Fume Hoods
- HEPA Filter Monitoring (pharmaceutical and semiconductor plants)
- Paint Spray Booth Filters
- Bubbler Level Systems
- Boiler (Draft) Pressures
- Pollution Control Equipment (Baghouses)

HVAC Applications

- Filter Monitoring
- Flow Monitoring
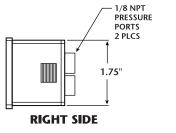- Fan Static Pressure
- Room Pressurization
- Draft Pressures

The Titan Series of panel meters incorporates the use of a microprocessor and a solid-state, silicone piezoresistive sensor. The microprocessor allows for no trim pots, all digital calibration and overall product flexibility. The Titan Series combines an indicator, a switch, and a transmitter, with a large, vibrant 3½ digit LCD display, all in a compact, 1/8 DIN enclosure. On the MPM2, set point settings are easily made by the on-board, push-button adjustments. The Titan Series of pressure panel meters features a pushbutton "zero" adjustment, making mounting orientation flexible and easy — and (on the MPM2) the two on-board LEDs allow for bright visual indication of when a Hi and/or Lo point has been achieved.

The Titan Series of pressure panel meters may be ordered with dual relays for output switching. Typical applications would include those where a Hi and/or a Lo alarm point are important. The Titan Series is available with a 2 or 7 amp failsafe configured relay. Models with relays also feature an easy-to-use, programmable deadband, which can be set for up to 25% of the range of the unit, in .001" increments.

Relative accuracy is 0.5% of full range. The unit is fully compatible with air and other inert gases. Ranges are available up to 20" WCD and 5 kPaD. An optional gasket is available in order to make the faceplate meet NEMA 4 requirements.

TOP VIEW

3.60"

1.40"

.16"

FRONT VIEW

3.75"

1.90"

RIGHT SIDE

1/8 NPT PRESSURE PORTS 2 PLCS

1.75"

Dimensions	1/8 DIN, 1.66" deep (from base of pressure fittings)
Panel Cutout Dimensions	3.62" wide x 1.77" high (per DIN std. 43700)
Material	ABS Plastic ULV94V-1; polycarbonate panel retention clip
Enclosure	NEMA 4/IP 65 (front panel only) with gasket accessory
Measurement Ranges Available	±2" WCD ±5" WCD ±10" WCD ±20" WCD ±2 kPa ±5 kPa (all units are bi-directional)
Proof Pressure	3x Range
Operating Range Temperature	0 to 55°C
Storage Temperature Range	-20 to 70°C
Relative Humidity	10% to 90%
Relative Accuracy	±0.5%
Span Tempco	±0.02%/°C
Zero Tempco	±0.05%/°C
Display	3½ digit LCD display
Power Requirements	5 to 36 VDC for models without outputs 11 to 32 VDC for models with 4-20 mA and/or with Relay option
Power Consumption	30 mA for models without Relays (typ. < 1 watt) 100 mA for models with relays or Analog outputs 200 mA for models with relays and Analog outputs
Pressure Line Polarity	Automatically bi-directional
Warm-up Time	3 minutes to rated accuracy
Connections –	**Electrical** Power – screw terminal, 14-26 AWG Outputs – screw terminal, 16-28 AWG **Pressure Lines** 1/8 NPT (Female)
Outputs (optional)	Analog output (4-20 mA and 0-5 VDC) Dual Relay Contacts, 2 Amp, SPDT Dual Relay Contacts, 7 Amp, SPDT
User Adjustments	Three push-buttons (Zero, Mode Selection, Up-Arrow) Set Points Deadband Analog Output Offsets
Approvals	CE

ORDERING INFORMATION

MPM - [1]   [2]   [3]   [4]

[1] Model (one choice only)

1 **Base Model** - Basic product with 3-1/2 digit LCD display. Pushbutton zero. 1/8 DIN case. 5 to 36 VDC power input. **See Note 1**

2 **Enhanced Model** - Basic product (MPM1) with front panel Hi and Lo alarm LED indicators and Hi / Lo alarm (setpoint) capability. Mode and +/- front panel buttons added. **See Note 2**

[2] Range (one choice only)

06EB ±2" WCD
06EB ±2" WCD
09EB ±10" WCD
11EB ±20" WCD
09PB ±2 kPaD
11PB ±5 kPaD

[3] Options (available on MPM2 only; one choice only)

R2 2 alarm relays; high and low; 11-32 VDC; contact rating of 2 amps; user programmable deadband up to 25% of range. **Available on ALL MPM2 Models.**

R7 2 alarm relays; high and low; 11-32 VDC; contact rating of 7 amps; user programmable deadband up to 25% of range. **Available on ALL MPM2 Models.**

AO isolated 4-20 mA, 3-wire current loop output AND 0-5 VDC output.

R2AO R2 and AO combined.

R7AO R7 and AO combined.

[4] Additional Features

N NEMA 4 Gasket. **Available on all models.**

NOTE 1 — All models without option boards are 5-36 VDC; all option boards are 11-32 VDC.
NOTE 2 — All items in the Options column are only available on MPM2.