Intellect-69PM2

Process Monitor with Analog Inputs

Features

- Analog Input 0-20 mA, 4-20 mA 0-5V, 0-10V or 1-5V

- Display Rate, Pressure, Level, Temperature, Watts, etc., Peak & Valley

- Calibration, High and Low Values (-9999 to 49999) Fully Programmable Through Keypad

- NEMA 4X / IP65 Front

- +24V Output for Peripherals

- 16 Bit A/D Resolution

- 2 Form C SPDT Relays (optional)

- 2 Levels of Operator Password Lockout

Application:
Any process monitoring application where two set points and scaling are needed.

Description:
Featuring $4^{1/2}$ digits of bright, 7-segment LED displays, the Intellect-69PM2 is a process monitor which accepts analog signal inputs. The unit can be field programmed to accept 0-20mA, 4-20mA, 0-5V, 0-10V or 1-5V signals. Two assignable set points are standard for high/low alarm outputs. The high and low scaling settings (-9999 to 49999) are programmable from the front panel. By pressing the "view" button, the unit will display: process reading, peak or valley. Press the lock button once to freeze the display, press it again to resume normal operation. Press the lock button 4 times quickly to enter lock code for panel lockout. RS-232, RS-422 and 4-20mA analog out are available options for interfacing to a host computer or strip chart recorder.

Specifications:
Display:
$4^{1/2}$ digit, .55" high, 7 segment, red orange, LED.
Input Power: 110, 220 VAC ± 15% or 12 to 24VDC.
Current: 300 max. mA DC or 10.0 VA (10W) at rated AC voltage.
Output Power:
(AC powered units only) + 24VDC @ 50mA regulated ±5%. (100 mA available on request)
Temperature:
Operating: +32°F (0°C) to +130°F (+54°C).
Storage: -40°F (-40°C) to +200°F (93°C).
Memory: EEPROM stores data for ten years if power is lost.

Reset:
Front Panel: resets displayed value and control outputs.
Control Outputs:
Standard: Open collector sinks 250mA from 30VDC when active.
Optional: 2 each Form C SPDT 5 Amp @ 120/240 VAC or 28 VDC.
Input: Linear 0-20mA, 4-20mA, 0-5V, 0-10V or 1-5V selectable from the front panel.
Calibration: The unit does all of the calibrations internally. There are no potentiometers to adjust and the unit never needs to be removed from the case or panel.
Set Points: Two control set points are provided. The unit comes standard with two open collector control outputs. Two 5 Amp, Form C relays are optional. The outputs have a programmable alarm range from -9999 to 49999 with hysteresis.
Process Display: Updates 4 times per second, Accurate to 4.5 digits.
Programming: Decimal points, Scaling from -9999 to 49999, set points, input type and security lock code are all programmable from the front panel.
Housing: Standard 1/8 DIN, high impact ABS plastic case (NEMA 4X/IP65 front panel).
Shipping Weight: 2 lbs.
Overvoltage Protection: 50 V
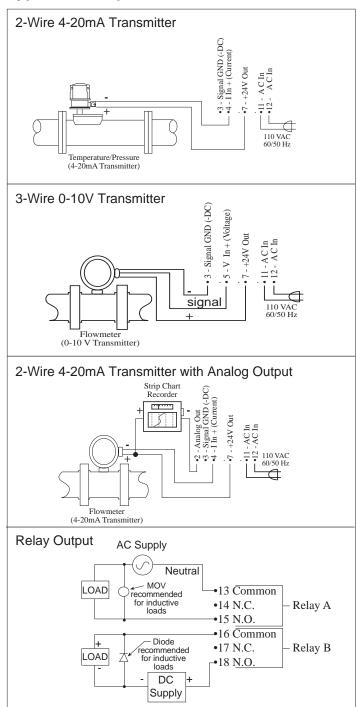**Over-current Protection:** 50 mA
Temperature Stability: Will not drift more than 10 parts per million per °C from 0°C to 54°C
Accuracy: .1% (5 V inputs .16%)
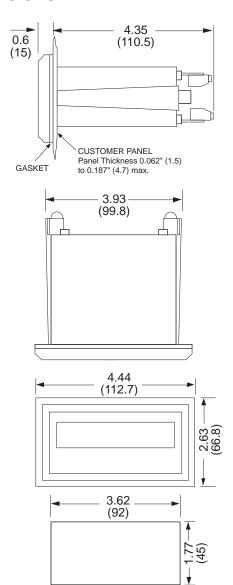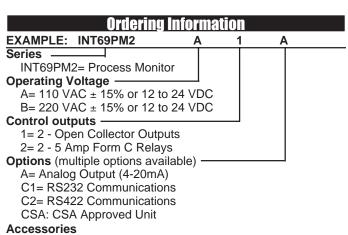**Listing:** CE Compliant, CSA (File No. LR91109), NRTL/C pending

Typical Hookups:

2-Wire 4-20mA Transmitter

Temperature/Pressure
(4-20mA Transmitter)

3 - Signal GND (-DC)
4 - I In + (Current)
7 - +24V Out
11 - AC In
12 - AC In

110 VAC
60/50 Hz

3-Wire 0-10V Transmitter

Flowmeter
(0-10 V Transmitter)

signal

3 - Signal GND (-DC)
5 - V In + (Voltage)
7 - +24V Out
11 - AC In
12 - AC In

110 VAC
60/50 Hz

2-Wire 4-20mA Transmitter with Analog Output

Strip Chart Recorder

Flowmeter
(4-20mA Transmitter)

2 - Analog Out
3 - Signal GND (-DC)
4 - I In + (Current)
7 - +24V Out
11 - AC In
12 - AC In

110 VAC
60/50 Hz

Relay Output

AC Supply

Neutral

LOAD

MOV recommended for inductive loads

•13 Common
•14 N.C.   — Relay A
•15 N.O.

•16 Common
•17 N.C.   — Relay B
•18 N.O.

LOAD

Diode recommended for inductive loads

DC Supply

Wiring:

1•Reset In
2•Analog Out (Sink)
3•Signal GRD (-DC)
4•(Current) +I in
5•(Voltage) +V in
6•Not Used
7•+24V Out
8•Preset B Collector
9•Preset A Collector
10•+DC In
11•110/220 VAC
12•110/220 VAC

Relay A
13•Common
14•N.C.
15•N.O.

Relay B
16•Common
17•N.C.
18•N.O.

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DIMENSIONS:

0.6 (15)

4.35 (110.5)

CUSTOMER PANEL
Panel Thickness 0.062" (1.5)
to 0.187" (4.7) max.

GASKET

3.93 (99.8)

4.44 (112.7)

2.63 (66.8)

3.62 (92)

1.77 (45)

Flow Instruments
PROCESS & LEVEL MONITORS

Ordering Information

EXAMPLE: INT69PM2   A   1   A

Series
INT69PM2= Process Monitor

Operating Voltage
A= 110 VAC ± 15% or 12 to 24 VDC
B= 220 VAC ± 15% or 12 to 24 VDC

Control outputs
1= 2 - Open Collector Outputs
2= 2 - 5 Amp Form C Relays

Options (multiple options available)
A= Analog Output (4-20mA)
C1= RS232 Communications
C2= RS422 Communications
CSA: CSA Approved Unit

Accessories
Separate non keyboard panel order #34235
Separate keyboard panel - order #34234
Serial printer available, see P1000, P295
Ethernet Port Server available, see IEPS
RS-422/485 to RS-232 Communication Adaptor available, see CA285
XHV Explosion Proof Housing (see Accessories)
NEMA-1/8DIN NEMA 4 wall mount enclosure (see Accessories)

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