



ADVANCED ELECTRONIC MODULE

Adem[®] - PTZ

AdEM®-PTZ ADVANCED ELECTRONIC MODULE

AdEM®-PTZ – Advanced Electronic Module is a new generation of Electronic Module that can be mounted directly onto Romet or other manufacturers' pressure body. This new compact design module offers up to 15 years of battery life, it is service-free and weather resistant. AdEM®-PTZ provides upgraded functions, such as: Full Audit Trail by communication reading including Interval, Daily Logger, Event Logger, Alarm Logger, live battery capacity calculation, and flash memory for easy update.

AdEM-PTZ with
back-up counter



AdEM®-PTZ FEATURES

- **Large, easy to read LCD**, 8 digits/characters, 14 segments semi alpha-numeric
- **Multiple level of security** ensure the integrity of the gas measurement
 - Password protection
 - Sealable program access jumper
 - Enclosure seal screws
- **Non-volatile EEPROM memory** protects the integrity of the gas registration by storing parameters, alarms, audit trail data, set-up configuration
- **Serial communication port:** RS 232 or RS485
- **Communication software:** Romet and/or third party software (contact Romet)
- **Communication protocol:** by Romet and Modbus
- **Most of parameters** configurable by software
- **Possibility of upgrading firmware remotely**
- **Single scroll button** to view key parameters quickly
- **Optional portable keyboard**
- **Hayes compatible modem communication** implementation
- **Full audit trail:**
 - Interval records storage is 256 days of hourly readings, depends on parameters selection
 - Daily Logger (1024 records)
 - Alarm Logger (102 records stamped with the time and date)
 - Event Logger (166 records) stores any changes to the set-up or calibration

PERFORMANCE DATA

Correction

- PTZ with live or Fixed supercompressibility
- Supercompressibility method: NX19, AGA8, SGERG88
- T only or P only (configurable)
- Low flow compensation (Romet meters only) expands meter rangeability to 200:1

Accuracy

- Combined error $\pm 0.5\%$ typical

Electrical

- Powered by lithium battery (up to 15 years)
- Connection for external power supply available
- Circuitry: 3.3V surface mount technology
- Backup supercap to retain data during main battery disconnection

Temperature Sensor

- Flowing gas temperature: -40°F to 158°F (-40°C to 70°C)
- Standard ambient operating temperature: -40°F to 158°F (-40°C to 70°C)
- Resolution: 0.2°F (0.1°C)
- One point of calibration (RTD)
- Error: $\pm 0.15\%$ typical; $\pm 0.25\%$ maximum with reference to absolute temperature

Pressure Sensor

- Strain gauge type
- Absolute measurement
- $\frac{1}{4}$ " NPT bulkhead connection on the enclosure
- 3 points calibration
- Error less than $\pm 0.2\%$ for reference conditions

Pressure Ranges – Standard

• Imperial (psia)		• Metric (kPa) (Bar units on request)	
10 to 50	50 to 200	100 to 500	250 to 1300
20 to 100	100 to 500	150 to 700	

Other ranges on request

Output pulses

- Uncorrected, Corrected and Alarm
- Opto-isolated, form "A" (25V DC maximum, 2mA)
- Standard pulse width: changeable from 5 to 50 ms by 5ms step with selectable pulse spacing 50ms, 100ms, 150ms, 200ms, 250ms, 350ms, 500ms or 750ms.
- Output pulses can be shut off by select pulse spacing OFF

Input pulses

- High frequency solid state sensor

Approvals

- Intrinsically safe Class I Division 1 & 2 Group D, CSA LR59221

Mounting

- Romet or other type of pressure body
- Horizontal mounting option available on specified models

Physical characteristics

- Dimensions: 5.25" x 6.1" x 4.06" (133 mm x 156 mm x 103 mm)
- AdEM®-PTZ module weight: 1.6 lb. (0.73 kg)



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