



Adem® -PTZ-MI Module

Pressure & Temperature Compensation for Instrument Drive Meters



Romet's Adem®-PTZ-MI combines the data generation benefits and remote installation flexibility of Adem®-PTZ-r with the capability to collect data from instrument drive measurement devices. It is compatible with any meter equipped with standard CW or CCW Instrument Drive (ID or DCID) having suitable mounting platform, including ID rotary meters, large diaphragm meters, and turbine meters.

Adem®-PTZ-MI has a compact, durable, service-free, tamperproof, and weather resistant design with a high level of accuracy and customization. Since it is based off the Adem®-PTZ-r, it has the ability to account for temperature, pressure and supercompressibility.

Adem®-PTZ-MI is simple to install and easy to use. It provides four available output pulses, serial communication, and a full audit trail to generate a wealth of meter data in support of modern data-driven business practices.

Universal fit makes system upgrades easy on any meter

Adem®-PTZ-MI extends the universal compatibility of the Adem® series to include Instrument Drive meters, such as large diaphragm meters and turbine meters. By deploying Romet's one-size-fits-all Adem® modules, utilities are able to minimize inventory and reduce truck rolls. Installation is simple and fast without the need for gas shut-off, re-piping, or customer interruptions.

Enable measurement systems with smart communication to process and organize measurement data

Adem® modules integrate seamlessly with Romet's BrightLync® Advanced Communications platform to provide a best-in-class network for near real-time data transmission and visualization. Adem® is also compatible with Itron, Sensus, Aclara and other AMI/AMR vendor equipment, allowing for rapid deployment with established infrastructure.

Specifications

- Compatible with any meter equipped with standard CW or CCW Instrument Drive (ID or DCID) having suitable mounting platform
- User configurable pulse input rate (1, 10, 100, 1000)
- 15-year nominal battery life (replaceable)
- End of battery life warning
- Non-volatile EEPROM memory with full audit trail
 - 2088 interval logs (348 days)
 - 1536 daily logs
 - 204 alarm logs stamped with time and date
 - 512 event logs
- 12-year Measurement Canada accuracy seal
- Total accuracy of $\pm 0.3\%$ nominal (% of reading)
- Live temperature and pressure compensation
- Pressure measurement up to 800 psig/psia
- Standard ambient and gas temperature: -40F to +149F (-40C to +65C)
- 1-point temperature calibration (RTD)
- 1-point or 3-point pressure calibration
- Four isolated output pulses available:
 - Two corrected volume pulse output channels
 - One uncorrected volume pulse output channel
 - One programmable pulse output channel (Corrected, Uncorrected, or Alarm)
- Customizable pulse width and pulse spacing
- Cable gland with pulse wire for easy AMR/AMI mounting
- Compatible with Itron, Sensus, Aclara, and other AMI/AMR vendors
- Black anodized, universal AMR/AMI mounting bracket available
- Serial communication port - RS232
- Seamless integration with BrightLync® Advanced Communications Platform

- Optional portable keyboard
- Rugged, multi-function button with up to 15 scroll list parameters
- Button also allows for: Output Pulse Test, and malfunction clearing
- Large and easy to read LCD; 8 digits, 14 segment semi alpha-numeric
- Weather and UV resistant, ESD grade engineered polycarbonate enclosure

Approvals / Certifications

- Intrinsically safe: Class I, Zone 0 (ATEX), Class I, Div 1 Group D (NEC)
- CSA Approval 80190057
- CSA Model Designation: AdEM EVC-02-r
- ATEX Approval
- IECEx Certification of Conformity
- MID Approval (Pending)
- CE Declaration of Conformity (Pending)
- Measurement Canada Approval NOA AG-0606



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F-135 Rev 5
July 2026
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