



Adem[®] -Tq Module Temperature Compensation & Meter Health Monitoring



Romet's Adem[®]-Tq is an electronic volume corrector module with temperature compensation and meter health and performance monitoring. Available as direct mount with Romet and Dresser rotary gas meters, the Adem[®]-Tq has a compact, durable, service-free, tamperproof, and weather resistant design with a high level of accuracy and customization.

Adem[®]-Tq 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.

Prevent a problem before it occurs

Adem[®]-Tq continuously monitors performance of the meter by measuring flow rate and differential pressure. Adem[®]-Tq then derives the Q-Margin daily value and Q-Log monthly value to monitor the performance level of the meter over time. As the Q-Log reduces and passes a user-defined threshold, a notification is sent to signal the need for maintenance action.

Universal fit makes system upgrades easy on any meter

Adem[®]-Tq comes standard with Romet's patented Adem[®] Click technology allowing for simple installation with any Romet or Dresser (B3/LMMA) rotary meter. 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

- 15-year nominal battery life (replaceable)
- End of battery life warning
- Highly sensitive, redundant sensors for volume input
- 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 +/-0.3% nominal (% of reading)
- Live temperature compensation
- Standard ambient and gas temperature: -40F to +149F (-40C to +65C)
- Highly accurate differential pressure transducer can be installed at up to 50 psia
- 1-point temperature calibration (RTD)
- Meter health status can be monitored by viewing Q-Log parameter via scroll list
- 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
- Patented Adem[®] Click Kit for direct mount meters
 - Click Kits include mounting plates and sensors for Dresser LMMA & B3 meters Convenient one touch push button proving mode
- Quick and efficient proving with Model 5 and 6 prover
- Rugged, multi-function button with up to 15 scroll list parameters
- Button also allows for: Sense Test, Prove Mode, 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-Tq
- ATEX Approval (Pending)
- IECEx Certification of Conformity (Pending)
- MID Approval (Pending)
- CE Declaration of Conformity (Pending)
- Measurement Canada Approval NOA AG-0606 Rev 6
- Measurement Canada Model Designation: AdEM+Tq

