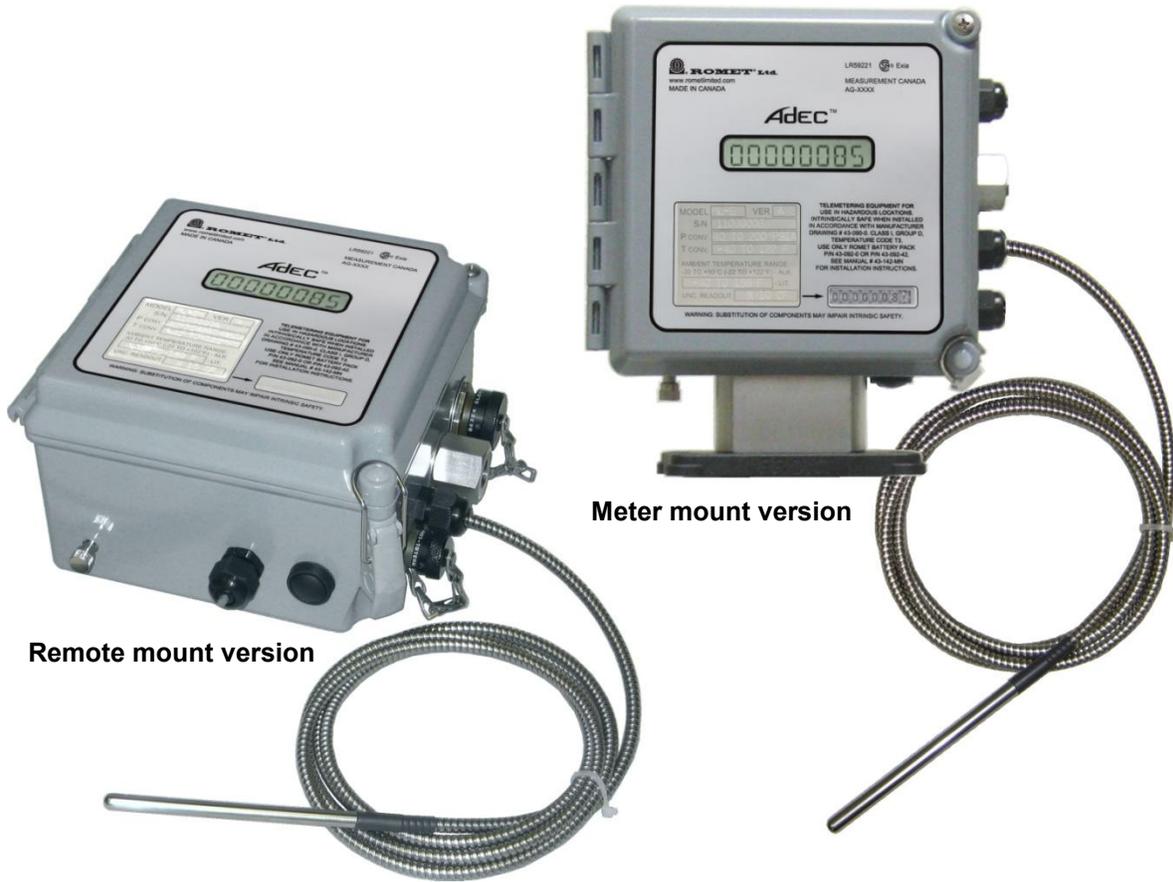




ROMET[®]



Remote mount version

Meter mount version

ADVANCED ELECTRONIC CORRECTOR

Adec[™]

AdEC™ – ADVANCED ELECTRONIC CORRECTOR

AdEC™ is a new generation of Electronic Volume Corrector that offers increased service-free life, compact design, enhanced data collection, reliable communication capability including Modbus protocol, high measurement accuracy, newest micro-power electronics, and user friendly software. AdEC™ provides peace of mind by being a part of gas measurement applications.

AdEC™ FEATURES

- **Large, easy to read LCD**, 8 digits/characters, 14 segments semi alpha-numeric
- **Rugged fiberglass EMI/EMC protected enclosure**
- **Multiple level of security** ensure the integrity of the gas measurement
 - Password protection
 - Sealable program access switch
 - Seal/padlock latch
- **Non-volatile EEPROM memory** protects the integrity of the gas registration by storing parameters, alarms, audit trail data, set-up configuration
- **Mechanical backup counter** (meter mount version only)
- **Gauge pressure displayed** to facilitate field accuracy inspections
- **Universal mounting** for most gas meter instrument drives (meter mount version)
- **RS 232 Serial communication port**
- **Romet and Modbus communication protocol supported**
- **Software is supported by Windows XP** or higher
- **Most of parameters** configurable by software
- **Single scroll button** to view key parameters quickly
- **Hayes compatible modem communication** implementation
- **Full audit trail:**
 - Interval records store up to 409 days of hourly readings
 - Configurable, 1024 daily records
 - Alarm logger (101 records stamped with the time and date)
 - Event logger (200 records) stores any changes to the set-up or calibration

PERFORMANCE DATA

Correction

- PTZ with Life or Fixed supercompressibility
- P only
- T only

Configuration

- NX19, AGA8 or SGERG88 supercompressibility method
- Imperial or metric
- Meter mount or remote mount

Accuracy

- Combined error $\pm 0.5\%$ typical

Power

- Alkaline battery rated for up to 7 years
- Lithium (sealed pack) rated for up to 10 years
- Backup battery or supercap to retain data during main battery disconnection
- Standard operating temperature range:
 - Lithium : -40°F to 158°F (-40°C to 70°C)
 - Alkaline: -22°F to 122°F (-30°C to 50°C)

Temperature Sensor

- Standard measurement range: -40°F to 122°F (-40°C to 50°C)
- Highly stable solid-state sensor
- Standard probe length of 4.5" (110mm)
- Standard (armored – optional) cable length of 6 feet (1.83m)
- Resolution: 0.2°F (0.11°C)
- Error $\pm 0.5^\circ\text{F}$ (0.3°C) typical, $\pm 0.9^\circ\text{F}$ (0.5°C) max.
- 1 or 3 points of calibration

Pressure Sensor

- Strain gauge type
- Absolute measurement

- $\frac{1}{4}$ " FPT bulkhead connection on the enclosure
- 5 point calibration
- Error less than $\pm 0.2\%$ for reference conditions

Pressure Ranges – Standard

Imperial (psia)		Metric (kPa) (Bar units on request)	
10 to 50	100 to 500	100 to 500	650 to 3200
20 to 100	200 to 1000	150 to 700	1500 to 7000
50 to 200		250 to 1200	
Other ranges on request			

Pulse Outputs

- Unconverted, converted and alarm
- Opto-isolated, form "A" (25V DC maximum, 2mA)
- Pulse width of 50ms
- Multipliers: Imperial: x1cf, x10cf, x100cf, x1000cf, x10000cf
Metric: x0.01m³, x0.1m³, x1m³, x10m³, x100m³

Input Multipliers

- LF reed switch
- Reverse flow detection (meter mount version)
- Multipliers: Imperial: x1cf, x5cf, x10cf, x100cf, x1000cf, x10000cf
Metric: x0.01m³, x0.1m³, x1m³, x10m³, x100m³

Safety Standards

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

Physical Characteristics

- Dimensions (including connectors):
Meter mount:
H 8.27" x L 7.56" x W 4.33" (210mm x 192mm x 110mm)
Remote mount:
H 7.17" x L 7.56" x W 4.33" (182mm x 192mm x 110mm)
- Weight: 4.95 lbs/2.25 kg (meter mount)
4.73 lbs/2.15 kg (remote mount)



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