



Mini-Max®

Mini-Max®-AT

Mini-Max®-ATX

Powerful, Reliable, Precise Volume Measurement from Mercury

An economic solution for precise gas volume correction anywhere in your operation—backed by Mercury quality, service and 4-year warranty!

Mercury Instruments—a name synonymous with quality and reliability in the natural gas industry—offers its affordable MINI-MAX®, MINI-MAX®-AT & MINI-MAX®-ATX Corrector for basic volume measurement and correction. You can get maximum performance value with compact electronic precision and reliability. Use the MINI-MAX®, MINI-MAX®-AT or MINI-MAX®-ATX to upgrade and enhance the efficiency of your natural gas operation.

Featured for Performance Value:

- **Low Power Requirements:** 4+ years on four D-cell alkaline batteries
- **Continuous LCD Display** of corrected volume, updated on meter rotation
- **Programmable Pulse Lengths:** 2 Form-A volume and 1 Form-A alarm
- **Audit Trail Memory:** 41 days of daily (Mini-Max®) or 41 days of hourly (Mini-Max® AT) or 400 days of hourly (Mini-Max® ATX) corrected volume, uncorrected volume, average pressure and average temperature
- **Selectable 4 or 10 Item Audit Trail Logging**
- **Complete Volume Correction** for pressure, temperature and supercompressibility (NX-19 or AGA-8) selectable for live or fixed
- **Field Programmable Firmware** through serial port (flash memory)
- **Membrane Pushbutton** and alphanumeric LCD for display of uncorrected volume, corrected volume, live pressure, live temperature, display test and battery voltage (display list is user configurable)
- **Programmable Call-in:** scheduled and on alarms



MERCURY INSTRUMENTS, INC.
MANUFACTURER OF PRECISION INSTRUMENTS

Specifications:

Input Volume

- Dual dry-reed switches—one pulse per each meter revolution
- RSI connection for remote switch input
- Uncorrected volume totalized on the mechanical index and displayed on LCD
- Uncorrected volume pulse counting continues for half-hour with main battery removed

Input Pressure

- Precision strain gauge pressure transducer compensated to minimize ambient temperature effects
- Live LCD display of input pressure
- Standard transducer ranges

Pressure range		Transducer Type
PSI	Bar	
0-1	0.07	Gauge
0-3	0.20	Gauge
0-6	0.40	Gauge
0-15	1.0	Gauge
0-30	2.0	Gauge/Absolute
0-60	4.0	Gauge/Absolute
0-100	7.0	Gauge/Absolute
0-150	10.0	Gauge/Absolute
0-200	14.0	Gauge/Absolute
0-300	20.0	Gauge/Absolute
0-600	41.0	Gauge/Absolute
0-1000	70.0	Gauge/Absolute
0-1500	100.0	Gauge/Absolute

Input Temperature

- Highly stable solid-state temperature sensor in a 1/4-inch diameter, 6-inch long stainless steel probe with 6-ft. shielded conductor and 1/2-inch NPT slip-along fitting to meter thermowell
- Range: -40 to 150 F (-40 to 65.5C)
- Live LCD display of input temperature

Corrected Volume

- Corrected to desired base pressure and temperature
- Corrected for supercompressibility: NX-19 or AGA-8
- Selectable (metric and imperial) volume units
- Displayed continuously on 8-character x 1/2" LCD

Power

- 5.0 to 7.0 VDC
- Battery life: 4+ years with four D-cell alkaline batteries
- Half hour operation after batteries removed
- 2-month low battery warning (LCD displays HELP)
- LCD display of main battery voltage and alarms

Output Volume

- 2 form-A for volume and 1 Form-A for alarm
- Software selectable pulse width (default = 62.5 msec)

Communications

Messenger Modem / CDMA / GSM/GPRS / Spread Spectrum Radio / Bluetooth Technology

Memory

- Audit Trail: Mini Max: 41 days of daily data
(date/time/4 items) Mini Max AT: 41 days of hourly data
(date/time/10 items) **Mini Max ATX: 400 days of hourly data**
Mini Max ATX: 180 days of hourly data
- Flash: Resident firmware (serially upgradeable)
- E²Prom: Resident pressure compensation coefficients, audit trail and critical calibration/configuration items values

Accuracy

Maximum error at reference conditions including linearity, repeatability and hysteresis

- Computation: +/- 0.3% of corrected volume
- Pressure transducer: +/- 0.4% of full scale
- Temperature sensor: +/- 1.0 F
- Combined computation: - 0.5% of full scale (pressure and temperature)

Ambient Temperature Effects

From -40 to 150 F (-40 to 65.5 C)

- Computation: +/- 0.1% of corrected volume per 100 F

Long Term Stability

- Pressure transducer: +/- 0.5% of full scale per year

Environmental Conditions

- Ambient temperature: -40 to 150 F (-40 to 65.5 C)
- Ambient humidity: 0 to 100 % non-condensing

Enclosure

- Composite case with hinged door and double latch bar
- Clear LCD viewing window
- Integral pushbutton for display list
- Mounting plate with gasket and bolts to accomodate most meters

Certifications



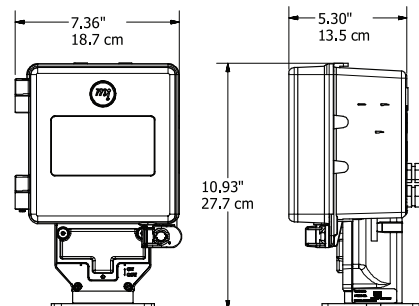
- Class I, Zone 0, Group IIA or Class I, Zone 2, Group IIA
- Class I, Division 1, Group D or Class I, Division 2, Group D, Zone 1 or 2, Group IIA

Warranty

- Four years

Weight and Dimensions

- 5.6 lbs (2.5 kg) meter mount



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