



Mercury ERX[®]



The Mercury ERX[®] is a powerful solution for a variety of pressure recording requirements—backed by Mercury quality, service and 4-year warranty.



Available in the Composite Enclosure with up to two pressure transducers.

Quality Pressure Recording with Expanded Memory and 3 Pressure Capability.

Get precise pressure recording anywhere, anytime with the Mercury Instruments ERX. This powerful recording instrument provides accurate pressure measurement with long term battery operations, remote communications, extended Audit Trail, and various pressure ranges. The combined set of features and options in this advanced pressure recorder meets the needs of practically any Class 1, Division 1 & 2 location.

Additional Value Features:

- Up to 3 pressure inputs
- Easy two-point calibration
- 3 operating modes:
 - Sample
 - Pushbutton Display
 - Serial Communications
- Modbus Protocol with a Protocol Translator Board
- Extended Audit Trail Memory
- Selectable Log Intervals
- Selectable Sample Intervals
- Expanded Alarms, including High/High and Low/Low
- RBX Alarm notification
- Live and Audit Trail Graphing via MasterLink software
- Variety of Reports: Log, Item, Site and Calibration
- Integral Communications Options Available:
cellular, radio, land-line, and satellite



MERCURY INSTRUMENTS, INC.

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www.mercuryinstruments.com

Specifications:

Gas Pressure Input

- One, two or three precision strain gauge pressure transducers compensated to minimize ambient temperature effects.
- Live display of input pressures on an optional LCD
- High/High and Low/Low alarms

Standard Transducer Ranges

Pressure Range		Transducer Type
PSI	Bar	
0-1	0.07	gauge
0-3	0.2	gauge
0-6	0.4	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	10.5	gauge/absolute
0-300	20	gauge/absolute
0-600	41	gauge/absolute
0-1000	70	gauge/absolute
0-1500	100	gauge/absolute
0-5000	350	gauge/absolute

Gas Temperature Input

- A highly stable, solid state temperature sensor connected through a 6' Teflon conductor. A 1/4" x 6" stainless steel probe with nylon slip-along is used to match the thermowell in the piping.
- Range -40 to 150 (-40 to 65C)
- Live display of input temperature on optional LCD

Power

- 3.8 to 15 VDC
- Battery life = 4+ years with alkaline batteries
- Half-hour operation without main battery source
- 2-month low battery warning
- Main battery voltage and alarms displayed on LCD
- Power supply options include: solar, AC, and Thermal Electric Charger

LCD Display

- Through the use of a pushbutton, up to 22 items may be displayed, plus alarms and live pressures and temperature readings.

Data Logging Configuration

- 10 user selectable items

Sampling Interval (user configurable)

- 1, 5, 10, 15, 30, and 60 seconds

Digital Inputs (2 channels)

- User programmable for active high or active low alarms

Memory

- Flash resident firmware serially upgradeable

Data Logging Intervals

- 1, 5, 10, 15, 30, and 60 minutes, or 24 hours

Data Log Capacity

Interval	10 item storage	4 item storage
1 minute	3 days	7 days
5 min	16 "	38 "
15 min	50 "	114 "
30 min	100 "	229 "
60 min	200 "	458 "
24 hours	5,000 " (13.5 years)	11,000 " (30 years)

Accuracy

Reflect maximum error at reference conditions including linearity, repeatability and hysteresis.

- Pressure transducer +/- 0.4% full scale
- Temperature Sensor +/- .5 F

Long Term Stability

- +/- 0.5% of full scale per year

Environmental Conditions

- Ambient Temperature -40 to 150F
- Ambient Humidity 0 to 100% non-condensing

Enclosure

- Aluminum or Composite material with hinged door and padlock hasp
- 13.75" x 10.63" x 5.38" or 6.5" x 6.5" x 4.5"
- White powder coat paint with "E coating" for aluminum enclosures

Mounting

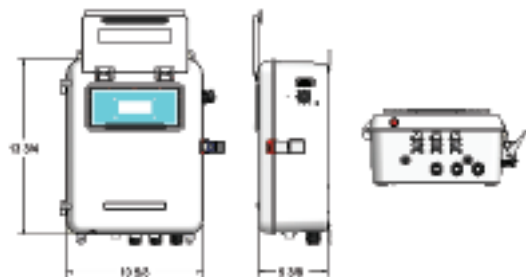
- Wall-mount, pipe-mount, portable

Weight

13.6 lbs (6.2 kg) for 800 Series case

Certifications

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



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