



Heath's HDR - Intrinsically Safe & Completely Configurable

The new intrinsically safe Heath Data Recorder (HDR) is a microprocessor based, self-contained system designed for the purpose of monitoring process using integral pressures and temperatures. Featuring a heavy-duty rust free powder coated aluminum housing designed to withstand the most extreme weather conditions. This is a powerful device that can be assembled and programmed in a variety of configurations.

Based on new circuit technology, it is capable of recording up to three (3) pressures, is available with up to two (2) temperature probes plus an internal case temperature. HDRHost is the companion software interface to the HDR instrument. The application program provides for configuration, calibration, local and re- mote communication, interrogation, data collection and data processing. The "Watchlog" gives circular data recording every second for 9 hours or 6 days of 16 second averaged data and generates an Excel file.

Depending on the housing type and sensor placements the HDR is suitable for wall/panel mount (bottom connect); 2" pipe mount (bottom connect) or portable (rear connect). The instrument utilizes one 1.5-volt, modular battery as its primary power source. The HDR incorporates an on board uninterruptible power supply. This consists of one factory installed "AA" lithium cell rated at 3.6 volts. The HDR also incorporates an on board battery (CR2032) for backup of RAM and its real time clock.



Features:

- *Intrinsically Safe UL 913 and CSA C22.2, Class I, Division 1, Group D.*
- *Up to three (3) Pressures and two (2) temperatures plus ambient.*
- *Continuous LCD displays Pressure, Temperature or Battery Voltage.*
- *Non-volatile Flash memory saves Calibration, Transducer Coefficients Configuration & Site info if all power is lost.*
- *Multi-Drop to several instruments from one modem.*
- *Measures & records all connected sensors every second.*
- *Single Alkaline "D" battery provides power for up to 4 years.*
- *Call-out upon alarm.*
- *HDRHost is compatible with Windows 7, Vista and XP.*

See back for specifications and ordering instructions

Specifications

Mechanical

Housing:	Aluminum; IP64 powder coated over chromate surface preparation
Dimensions:	7.25" x 6.25" x 4.25"
Weight:	5 lbs (including battery and on pressure transducer)
Mounting:	Wall, pipe or portable
Pressure Connections (3):	¼" NPTF
Temperature Probe (2):	¼" O.D. x 6" probe x 6' armor; ¼" NPTM slip fitting
Security:	Lockable stainless steel hasp
Display Scroll:	Push button switch

Electrical

Primary Power Pack:	1.5 volt; 1 D cell alkaline battery with IS protection board
Back Up Power:	3.6 volt field replaceable lithium cell
Transducer:	10 millivolt per volt excitation; 12 point polynomial compensation
Temperature Sensor (gas and air):	Integrated circuit type
Flow Detector	Falling reed input pulse
Display:	Eight digit continuous LCD
Communication:	Two RS 232, multi-drop addressable, native Sandia and Modbus ASCII and RTU

Performance

Accuracy:	+/- 0.5% of reading inclusive of linearity, hysteresis, repeatability, long term drift & temperature
Temperature:	-40°F to + 170°F
Humidity:	5 - 95% non-condensing
Primary Power Pack Life:	Up to 48 months based on 1 minute wake-up interval
Back Up Power Life:	Up to 12 months based on 1 minute wake-up interval

Options

Inputs:	Digital pulse input with electronic recording of counts
Outputs:	Pulse/call-out upon alarm or pulse counting/ repeating
Communication:	Internal 2400 baud "land line" modem, multi-drop harnesses, radio modem, cell modem, IP modem, surge protection

Certifications

Intrinsic Safety:	UL 913 and CSA C22.2, Class 1, Div 1 Group D
CE:	EMC directive EN 61326-1
Corrosion Resistance:	MIL-STD-810F

Heath Consultants Incorporated operates under a continual product improvement program and reserves the right to make improvements and/or changes without prior notification.



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