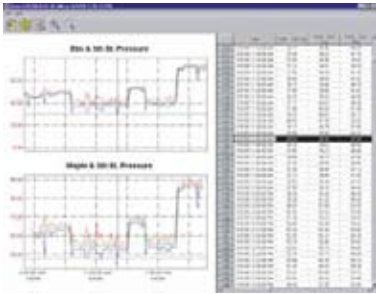


HPR-31i Hydrant Pressure impulse Recorder

Capture water hammer and negative pressure events



Telog's Hydrant Pressure Impulse Recorder, the HPR-31i, monitors water pressure within any water distribution system. The HPR-31i, an upgrade to Telog's HPR-31, is important for capturing water hammer and negative pressure events within your distribution system.

The HPR-31i is used for:

- Water hammer surge analysis**
- Negative pressure surge events**
- Fire flow testing**
- Pressure loss tests**
- Investigating pressure complaints**
- Routine pressure monitoring**
- Hydrant capacity testing**
- Calibrating hydraulic models**

The simplicity of the compact, battery-powered HPR-31i enables you to put it to work within minutes of unpacking. The HPR-31i attaches onto the 2.5 inch hose nozzle outlet of a common fire hydrant. The rugged enclosure is low profile and an optional security cover is available from Telog.

Once installed, the HPR-31i measures water pressure at user programmable rates up to 20 samples per second with its internal pressure transducer. You can determine how often such data is summarized for reporting. The recorder computes any combination of minimum, average and maximum pressure measurement at each interval according to your selection of statistics and recording intervals.

Recorded data may be gathered via an RS-232 connector using Telog's hand-held data transfer unit or a laptop. The data transfer unit is especially convenient for gathering data from several hydrant pressure recorders. At times when on-site data evaluation is required, a laptop and Telogers for Windows software, is all you need.

For more information on this product or other Telog data recording products, call us at **585.742.3000**, email **TelogSales@telog.com**, or visit us at **www.telog.com**.



Download to laptop or Palm data transfer unit



Security cover

Negative Pressure Event Recording

Water Hammer Event Recording

Easy Data Collection

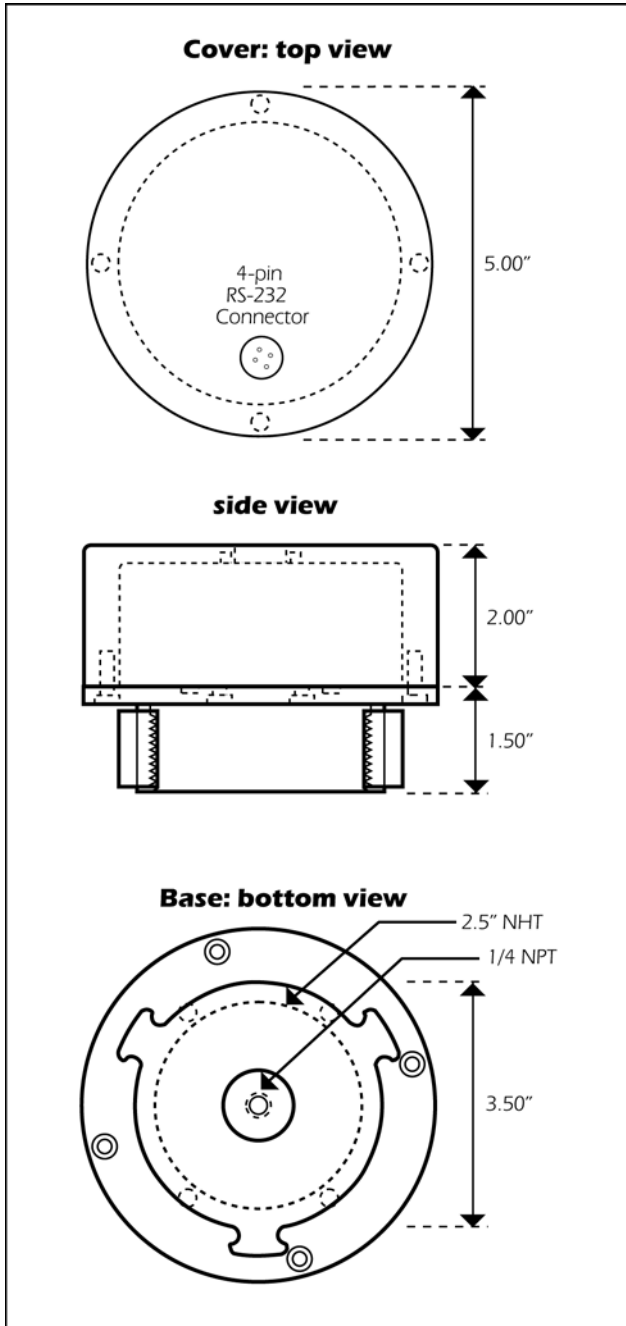
Decreased Maintenance Costs

18 Month Battery Life

Low Profile Results in Decreased Vandalism

Windows® Software Support

HPR-31i Specifications



Input

Type	Strain gauge, isolated pressure sensor
Range (psi)	100, 200, 300 (contact Telog for other ranges)
Over pressure (psi)	300, 600, 600
Burst pressure (psi)	850, 1000, 1000
Resolution	0.025% of full scale, 12-bit
Accuracy	±0.25% of full scale at constant temperature
Temperature effect	±0.01% of full scale per °C

Recording

Sample rate	Programmable from 20/sec up to 8 hours
Data interval	Programmable from 1/sec up to 8 hours
Values saved	Selectable min, avg & max per interval
Memory	128 Kbytes (~80,000 data values) interval data memory Plus 250 impulse events

Interface

Type	RS-232; 300 to 19.2 Kbaud
Connector	Circular 4 pin watertight

Battery

Type	Single AA Lithium (Saft LS 14500 or equal)
Life	5 years typical, 18 months when using impulse mode

Support Software

S-3PC	Telogers for Windows
S-3PCL	Telogers for Windows Lite
Data Transfer Unit	IP-67 rated PDA running Palm OS and Telog application program

Environmental and Mechanical

Temperature	
Operating	-10° to 65°
Storage	-40° to 65° C
Humidity	0-100% relative humidity
Enclosure	NEMA 4x/IEC IP65
Size	12.70 cm diameter x 8.89 cm 5" diameter x 3.5"
Thread*	Hydrant mount: 2.50" NHT standard, Contact Telog for non standard thread
(see side view)	Internal mount: 1/4" NPT

Computer Requirements

For S-3 PC or S-3PCL	IBM compatible computer with a 586/133 MHz or higher processor running on Microsoft Windows 95/98/NT/2000/XP at least 32 MB of RAM, a hard disk with at least 200 MB of free space and a pointing device.
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