



Tellog HPR-32i



WIRELESS, BATTERY-POWERED PRESSURE AND IMPULSE MONITORING

PRESSURE MONITORING WITH TRANSIENT WAVEFORM CAPTURE

The Tellog HPR-32i is an ideal pressure monitoring solution for fire flow testing, customer pressure concerns, transient analysis and hydraulic model calibration. The Tellog HPR-32i recorder measures water pressure at user programmable rates up to 32 samples per second with an internal pressure transducer. The recorder then computes any combination of the minimum, average and maximum values according to your selection of statistics and recording intervals. For example you can measure and store the maximum, minimum and average pressure at 5 minute intervals for more than 90 days.

The impulse recording option feature of the Tellog 32i units stores the waveform of captured transients. The HPR-32i can store up to 100 events of variable duration that may occur over many months of on-site monitoring, monitoring up to a maximum of 15 minutes of transient data at 32 samples/second.

Trimble Unity software combined with Tellog wireless hydrant pressure recorders provide a GIS-centric cloud and mobile platform for monitoring system pressures, transients and trends, min, max and average pressure history at any user defined interval. Hydrant pressure recorders can store data internally for many months and wirelessly transmit on a defined schedule and provide alerts and alarms in response to pressure faults or transients, delivering a complete solution for proactive pressure and leakage monitoring and management.



Wireless Communication

The power of every 32 series recorder from Tellog is wireless data transfer capability. Using cellular technology enables unmanned monitoring of remote sites as well as instant updates and alarm notifications.

Battery Power

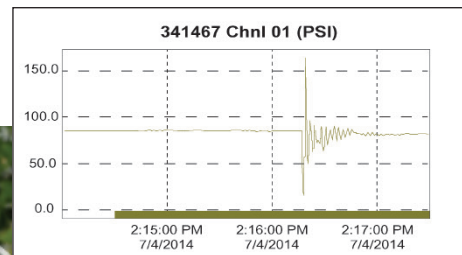
All Tellog hydrant pressure recorders have low power requirements so they can be battery operated. The HPR-32i series uses a single, user-replaceable D cell lithium battery. At a typical two calls per day, the battery will last up to five years.

Packaging and Installation

Every hydrant pressure recorder from Tellog is a low-profile, rugged unit that is easily installed by one person on a standard 2.5 inch hose nozzle outlet. For ease of mind an optional security cover can be used to prevent vandalism. Once installed, data is immediately available using Telloggers for Windows or Tellog Enterprise software.

Software Support

The Tellog HPR-32i is compatible with all Tellog software applications, including Tellog Online (cloud), Tellog Enterprise and Telloggers for Windows application software. This ensures that utilities have a complete solution addressing all their remote monitoring needs across their operations, delivered in a manner that suits each individual utility's operations and IT needs.



Recorded data from captured impulse event

Applications

- ▶ Customer pressure complaint investigation
- ▶ Pressure loss testing
- ▶ System pressure monitoring
- ▶ Water hammer monitoring
- ▶ Calibrating hydraulic models
- ▶ Fire flow testing
- ▶ Hydrant capacity testing
- ▶ High speed sampling to 32 samples/second

Benefits

- ▶ Reduce non-revenue water leakage and water main bursts
- ▶ Improve customer service and response time
- ▶ Monitor and optimize water supply and operations
- ▶ Real-time situational awareness on water pressure and supply

Features

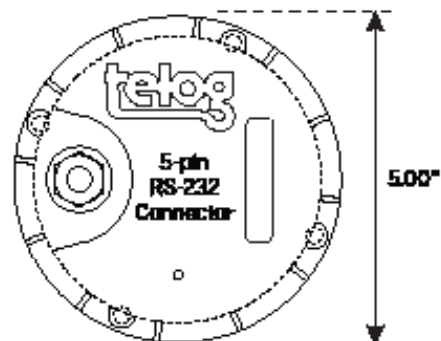
- ▶ Wireless communication
- ▶ Alarm notification
- ▶ Time stamped events
- ▶ Integral antenna
- ▶ 5 year battery life

Telog HPR-32i WIRELESS, BATTERY-POWERED PRESSURE AND IMPULSE MONITORING

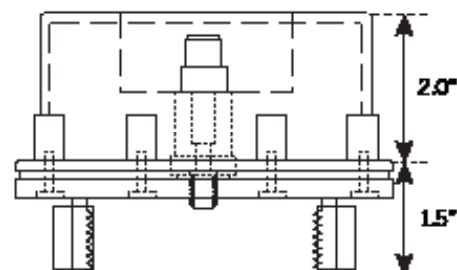
RECORDER MODEL: Telog HPR-32i

Type	Strain gauge, isolated pressure sensor with wireless
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	±0.015% of full scale per °F
Recording	
Sample rate	Programmable from 32/sec up to 8 hours
Data Recorded	Selectable min, max and average pressure per interval
Interval Period	Programmable from 1 second to 8 hours
Memory	128 Kbytes (~80,000 data values)
Impulse On	Note: Normal mode operates as specified above when impulse mode is on or off.
Data Recorded	Normal mode interval data plus transient event waveforms including pre and post transient event data, user configurable.
Transient Trigger	Pressure rate-of-change; either positive or negative; user configurable
Impulse Memory	Up to 100 transient events to a maximum of 37,000 samples after which new data will overwrite oldest data.
Communication	
Local RS-232	5 pin circular connector rated IP67 Auto-selected baud rate to 19.2 kbaud
Cellular	Internal Telog WM/C embedded 1xRTT modem certified on Sprint & Verizon in USA WM/H HSPA modem certified on Bell in Canada Dual band internal antenna
Battery	
Battery Life	Factory installed single 3.6V Lithium D cell Saft LSH20 or equal 3800 data calls to host computer Examples: 5 years @ 2 calls/day 2 years @ 5 calls/day 1 year @ 10 calls/day (@ 5 second sampling or less and good cellular signal strength)
Support Software	
S-3PC	Telogs for Windows
S-3EP	Telog Enterprise
DHS-Service	Telog Online
TW-UNITY	Trimble Unity
Environmental	
Temperature	
Operating	14° to 150°F
Storage	-40° to 150°F
Humidity	0-100% relative humidity
Enclosure	NEMA 4x/IEC IP65
Size	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
Security Cover	High impact nylon security cover. Choose from yellow, red or gray to best match hydrant color. Lockout hasps included.

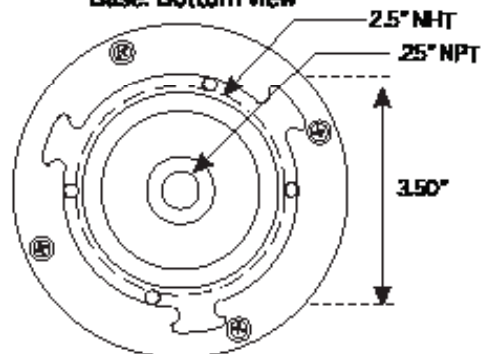
Cover: Top view



Side view



Base: Bottom view



High impact nylon security cover prevents vandalism. Security cover color options are yellow, red or gray.



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