



Badger Meter

Telog® PR-32A/32iA

**Wireless, Battery-Powered Pressure RTU
with Impulse Monitoring Option**

WATER SYSTEM PRESSURE AND LEVEL MONITORING WITH OPTIONAL TRANSIENT CAPTURE WAVEFORM

The Telog PR-32A and Telog PR-32iA are versatile instruments intended to monitor water system pressures or water levels (for example, underground aquifers, surface reservoirs or water tower levels). When you combine the Telog PR-32A series with a software option, you have a powerful system of wireless water infrastructure monitoring that is consistently delivering realtime data from the field straight to your desktop. Imagine all your data on one platform straight to your computer screen.

In addition to performing the measurement and recording functions of the Telog PR-32A, the impulse recording option feature of the Telog PR-32iA units stores the waveform of captured pressure transient waves detected on the monitored network. The Telog PR-32iA can store up to 125 events of variable duration that may occur over many months of on-site monitoring, recording up to a maximum of 2.5 minutes of transient data at 256 samples per second.

Wireless Communication

The power of every Telog 32 series recorder is wireless data transfer capability. Using cellular technology enables unmanned monitoring of remote sites as well as instant updates and alarm notifications. The Telog PR- 32A/32iA series uses a low power, LTE Category M1 cellular communication modem certified on Verizon Wireless.

Collecting Data

The Telog PR-32A/32iA series may be configured to call its host application on a schedule (for example, once per day; every four hours) and/or in response to site alarm conditions (for example, in response to a high level event). The recorder can sample the pressure sensor up to 4 times per second (Telog PR-32A) or up to 256 times per second (Telog PR-32iA). Data may be stored in the recorder at user defined intervals (for example, five minutes, one minute) without concern for data loss because the recorder will store up to 31,000 values, depending on input type, before overwriting the oldest data.

Packaging

The cellular modem, antenna, process signal conditioning, data recorder and battery are in a small IP68 rated Nema 6P enclosure for a combined weight of 2.5 lb (1.13 kg) and measuring 6.06 in. L x 5.69 in. W x 3.56 in. H (153.8 mm L x 144.6 mm W x 9.3 mm H).

Battery Power

The Telog PR-32A and Telog PR-32iA recorders have a user-replaceable Telog BP-4 lithium battery pack. At one call per day, the battery pack will last up to five years on a PR-32A RTU. The battery life with a PR-32iA depends on the sampling resolution chosen in addition to the call schedule (see [“Telog PR-32A/32iA Specifications” on page 2](#) for examples). With user-configurable call and sampling rates, you get to choose the best configuration for your application.



Software Support

Telog wireless recorders are compatible with all software applications, including Remote Monitoring Software, Telog Enterprise and Telogers for Windows application software. This ensures that utilities have a complete solution addressing all their remote monitoring requirements delivered in a manner that suits each individual utility's operations and IT needs.

APPLICATIONS

- Water system pressure monitoring
- Water level monitoring
- Tank level monitoring
- High speed sampling to 256 samples per second

BENEFITS

- Improve asset performance, reduce leakage and pipeline failures
- Monitor and optimize water and site operations and compliance
- Real-time situational awareness of overflows and high/low level events
- Battery operated

FEATURES

- Wireless communication via cellular (LTE)
- Alarm notification
- Time stamped events
- Sensor installs in 2 in. wells
- Automatic barometric pressure correction
- Integral antenna
- User programmable
- IP68 rating

TELOG PR-32A/32iA SPECIFICATIONS

Recorder Model Telog PR-32A and Telog PR-32iA

Type	Single channel pressure recorder			
	Resolution	12 bits (0.025%)		
	Accuracy	±0.075% of full scale at 73° F (23° C) ±40 ppm/°F		
Temperature Range	40...149° F (4...65° C)			
	NOTE:For applications below this operating range, please contact your Badger Meter Support team.			
Recording with PR-32 (no impulse option included)	Sample Rate	4 per second to 1 per 8 hours; programmable		
	Clock Accuracy	0.01%		
	Memory Size	80,000 data values		
	Storage Method	Wrap around (first-in; first-out)		
Recording with PR-32i (with impulse option included and on)	NOTE:When using PR-32i that includes the impulse option, the normal mode specified above will operate whether the impulse mode is on or off.			
	Data Recorded	Normal mode interval data plus transient event waveforms		
	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	4 pin circular connector rated IP-6 Auto-selected baud rate to 19.2K		
	Cellular	Internal Telog Cellular Modem certified for CatM1 on Verizon (US) and Bell (Canada). Cat 1 LTE available on FirstNet (US) and Aeris (International)		
		Module: Telit HE910-GL module/less than 2 W		
		Operational Modes: 1) GSM: B2 (1900 MHz) B3 (1800 MHz) B5 (850 MHz), B8 (900 MHz) 2) UMTS: B1 (2100 MHz), B2 (1900 MHz), B4 (AWS1700), B5 (850 MHz), B6 (800 MHz), B8 (900 MHz), B19 (800 MHz)		
Battery	Factory installed, field replaceable Telog BP-4 lithium battery pack			
	Battery Life	Up to 2800 data calls to host computer		
	Examples:			
	Model	Call Frequency	Sampling Frequency Battery Life	
	PR-32A	1/day	1/second	5 years
	PR-32iA	1/day	4/second	5 years
PR-32iA	1/day	128/second	2 years	
PR-32iA	1/day	256/second	1 year	
(@ medium to excellent signal strength)				
Enclosure	Size	6.06 in. L x 5.69 in. W x 3.56 in. H (153.8 mm L x 144.6 mm W x 9.3 mm H)		
	Weight	2.5 lb (1.2 kg)		
	Weight	2 lb (0.9 kg)		
	Material	Polycarbonate		
Environmental	Temperature	40...158° F (4...70° C) NOTE:For applications below this operating range, please contact your Badger Meter Support team.		
	Rating	NEMA 6P (IP68)		
Support Software	Telogers for Windows® 6.77 or later			
	Remote Monitoring Software			

PR-32A Sensor Specifications

Model	PT-DS	
Type	Strain gauge pressure sensor	
Range	Selectable 5, 10, 30, 100 and 300 PSIG	
	Accuracy over the calibrated temperature range including zero and span setting and the effects of non-linearity, hysteresis and repeatability: 0.25% FS	
Cable	Vented Polyurethane 0.225 in. (5.715 mm) diameter	
Pressure over Range	2x full scale with negligible calibration change	
	4x containment pressure up to 2900 PSI max	
Temperature	Range	25...140° F (-3.8...60° C)
	Temperature Effect	0.01%/°F (32...90° F)

PR-32iA Sensor Specifications

Model	PT-30b	
Type	Strain gauge pressure sensor	
Range	Selectable 200, 300, 500 PSIG	
	Non-linearity	±0.15% of span; BFSI
	Repeatability	±0.03% of span; BFSI
	Hysteresis	±0.03% of span; BFSI
Cable	Vented Polyurethane 0.310 in. (7.87 mm) diameter	
Pressure over Range	4x full scale with negligible calibration change	
	6x containment pressure up to 2900 PSI max.	
Temperature	Range	25...140° F (-3.8...60° C)
	Temperature Effect	0.01%/°F (32...90° F)
Physical	Pressure Fitting	1/4 in. NPT female
	Environmental	Submersible to NEMA 6P (IP68)
	Sensor Length	4.5 in. (114 mm)
	Sensor Diameter	1.0 in. (25.5 mm) max.
	Sensor Body Material	316 stainless steel
	Cable Weight	0.027 lb/ft



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