

# PR-32 Pressure Recorder

## Wireless, Battery-Powered Pressure RTU



Telog's PR-32 Pressure Recorder establishes a new standard in low power, low cost cellular communication RTUs for monitoring and alarming remote water system pressures or levels.

The PR-32 is a versatile instrument intended to monitor water system pressures or water levels (e.g. underground aquifers, surface reservoirs or water tower levels). It is available with a choice of pressure sensor ranges, from 1 to 500 PSI and cable lengths up to 500 feet.

You can configure the PR-32 to call its host application on a schedule (e.g. once per day; every four hours, etc.) and/or on alarm (e.g. in response to a high or low pressure or level exceedance condition). The recorder can sample the pressure sensor up to 4 times/second and store the data statistics (min, average, maximum or totals) at user defined intervals (e.g. five minutes, one minute, etc.). Data loss is not a concern because the recorder stores over 80,000 interval statistics before overwriting the oldest data with new.

The PR-32 uses a Telog proprietary, low power m2m cellular modem certified for operation on the Sprint, Verizon Wireless and Bell Canada cellular networks. The cellular modem, antenna, pressure signal conditioning, data recorder and battery are integrated into a small, environmentally rugged package making the PR-32 easy to install and put into service.

The recorder operates up to five years making on average two calls per day from its user replaceable 'D' cell lithium battery.

Telog Enterprise and Telogers for Windows host application software support the PR-32. However, Telog also offers a Data Hosting Service for users who prefer to outsource the computer data collection and management tasks providing end-user information on a secure website.

For more information on the PR-32 or other Telog products:  
Call us at 585.742.3000,  
Email [TelogSales@telog.com](mailto:TelogSales@telog.com),  
or visit us at [www.telog.com](http://www.telog.com).

**Water System Pressure Monitoring**

**Water Level Monitoring**

**Supports Pressure Ranges of 1 to 500 PSI**

**Cellular Communication**

**Integral Antenna**

**5 Year Battery Life at 2 Calls/Day**

**User Replaceable 'D' cell Lithium Battery**



# PR-32 Specifications

## Recorder

<b>Model</b>	Telog PR-32
<b>Type</b>	Single channel pressure recorder
<b>Measurement</b>	
Resolution	12 bits (0.025%)
Accuracy	±0.075% of full scale at 23°C ±75 ppm/°C
Temperature range	-40°C to +65°C
<b>Recording</b>	
Sample rate	4 per second to 1 per 8 hours; programmable
Clock accuracy	0.01%
Memory size	128 kbytes; 80,000 data values
Storage method	Wrap around (first-in; first-out)
<b>Communication:</b>	
Local RS-232	4 pin circular connector rated IP-67 Auto-selected baud rate to 19.2K
Cellular	Internal Telog WM/C cellular modem 1xRTT via CDMA certified on Sprint, Verizon Wireless and Bell Canada Factory installed single 3.6V Lithium D cell Soft LHS 20 or Equal, user replaceable 4000 data calls to host Computer Examples: 5 years @ 2 calls/day 1 year @ 10 calls/day
<b>Battery</b>	
<b>Battery Life</b>	
<b>Enclosure</b>	
Size	6.30 x 3.2 x 2.2 inches; LxWxH
Weight	2 lbs.
Material	Polycarbonate
<b>Environmental</b>	
Temperature	-40 to 70° C
Rating	NEMA 4x (IP66)

## Sensor

<b>Model</b>	Telog PT-30b
<b>Type</b>	Strain gauge pressure sensor
<b>Range</b>	Selectable 1, 2.5, 5, 10, 15, 30, 50, 100, 200, 300, 500 PSI
<b>Accuracy</b>	
Non-linearity	±0.15% of span; BFSL
Repeatability	±0.03% of span; BFSL
Hysteresis	±0.03% of span; BFSL
<b>Temperature Range</b>	-20°C to 60°C
<b>Temperature Effect</b>	±0.02%/°C (0 to 30°C)
<b>Pressure Over Range</b>	
Proof pressure	4 X full scale up to 5 PSI ranges 3 X for higher ranges
<b>Physical</b>	
Pressure fitting	1/4NPT female with depth nose cone
Environmental	Submersible to NEMA 6P (IP-68)
Sensor length	4.5"
Sensor diameter (max)	1.0"
Sensor body material	316 stainless steel
Cable	Vented Polyurethane 0.275" diameter
Cable weight	41 g/m (0.027 lbs./ft)

## Required Software & Options

<b>Support Software</b>	
S-3PC	Telogs for Windows
S-3EP	Telog Enterprise
Data transfer unit	IP-67 rated PDA running Palm OS and Telog



### Telog Instruments, Inc.

830 Canning Parkway, Victor, NY 14564-8940, USA  
Phone: 585.742.3000 • Fax: 585.742.3006

E-mail: [TelogSales@telog.com](mailto:TelogSales@telog.com) • [www.telog.com](http://www.telog.com)

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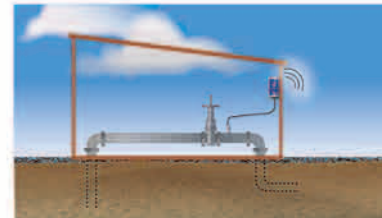
# PR-32 Application Solutions

## Water Level Recording



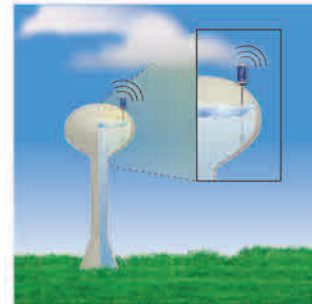
- Unattended In-well applications
- Wireless communication
- Alarm notification
- Time stamped events
- Record level and duration of events
- Sensor installs in 2" Wells
- Automatic Barometric Pressure Correction

## Line Pressure Monitoring



- Water and gas line pressure monitoring
- Water hammer detection
- Wireless communication
- Pressure alarms

## Tank Level Recording



- Chemical, fuel, or water level and transaction monitoring
- Wireless communication
- Inventory management
- Level alarm notification
- Refill scheduling