



Tellog PFE-32A

WIRELESS, BATTERY-POWERED PULSE/EVENT RECORDER



LOW POWER, LOW COST WIRELESS COMMUNICATION DATA RECORDERS FOR PULSE/EVENT MONITORING

When you combine the Tellog PFE-32A pulse frequency/event recorder and Trimble's range of cloud or on premise software solutions, you have a powerful system of wireless water infrastructure monitoring that is consistently delivering real-time data from the field straight to your desktop. Imagine.....all your data on one platform straight to your computer screen.

Wireless Communication

The power of every Tellog 32 series recorder from Trimble Tellog is wireless data transfer capability. Using cellular technology enables unmanned monitoring of remote sites as well as instant updates and alarm notifications. The Tellog PFE-32A uses a low power, LTE/Cat 1 cellular communication modem certified on Verizon Wireless.

Collecting Data

The Tellog PFE-32A may be configured to call its server application on a schedule (e.g. once per day; every four hours, etc.) and/or on alarm (e.g. in response to a major rainfall event). Data may be stored in the recorder at user defined intervals (e.g. five minutes, one minute, etc.) without concern for data loss because the recorder will store over 80,000 interval totals before overwriting the oldest data.

Packaging

The cellular modem, antenna, process signal conditioning, data recorder and battery are integrated into a small IP68 rated enclosure for a combined weight of two and one-half pounds and measuring 4" L x 4" W x 3" H [102mm L x 102mm W x 76mm H]. Because the antenna is enclosed within the Tellog PFE-32A, the only connection required is the sensor output.

Battery Powered

Powered by a single user replaceable BP-4 lithium battery pack, the Tellog PFE-32A continuously monitors the contact closures of the device (e.g. meter or pump) being monitored. Data can be collected in user defined time increments then transferred automatically over a cellular network to the cloud or to a central host computer. The Tellog PFE-32A can operate up to five years making on average one call per day.

Software Support

The Tellog PFE-32A is compatible with all Trimble software applications, including Trimble Unity, Tellog Online (cloud), Tellog Enterprise and Tellogers 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.

Application

- ▶ Remote monitoring of custody transfer points in water/wastewater networks
- ▶ Remote monitoring of bulk flow meters in water/wastewater and stormwater networks
- ▶ Monitoring of remote pumps in water/wastewater and stormwater networks

Benefits

- ▶ Monitor water/waste water flows for billing purposes
- ▶ Monitor and optimize real time water/waste water flows for optimized operations
- ▶ Hydraulic model calibration
- ▶ Pump monitoring and condition assessment.

Features

- ▶ Wireless communication via cellular (LTE)
- ▶ Alarm notification
- ▶ Time stamped events
- ▶ User programmable
- ▶ 5 year battery life
- ▶ IP68 Rating

Telog PFE-32A SPECIFICATIONS

RECORDER MODEL: Telog PFE-32A

Type	Single channel pulse/event recorder with wireless modem
Recording	
Pulse Input	Total pulse counts/interval; intervals selectable from 1/sec to 8 hrs
Event Input	Time stamp of on/off events to one second resolution
Input	Contact closure or logic driven input
Excitation	3 VDC at 20 µAmps (max)
Pulse width	10 mS minimum
Connection	2 position terminal block for flying leads via water tight fitting
Memory	
Size	128 Kbytes
Storage method	Wrap around (first-in; first-out)
Data capacity	
Pulse input	80,000 interval pulse totals
Event input	60,000 event time stamps
Communication:	
Local RS-232	5 pin circular connector rated IP67 Auto-selected baud rate to 19.2K
Cellular	Internal Telog WM2/L1 cellular modem LTE Category 1 certified Verizon Wireless
Local Bluetooth BLE 4.1	
Battery	Factory installed, field replaceable Telog BP-4 lithium battery pack
Battery Life	5 years nominal 2 data calls/day (@ medium to excellent signal strength)
Enclosure	
Size	4" L x 4" W x 3" H [102mm L x 102mm W x 76mm H]
Weight	2.5 lbs [1.2Kg].
Material	Polycarbonate
Environmental	
Temperature	-40 to 158°F [4 to 70°C]
Rating	NEMA 6P (IP68)
Support Software	
S-3PC	Telogers for Windows® 6.51 or later
S-3EP	Telog® Enterprise 6.51 or later
DHS-Service	Telog Online
TW-UNITY	Trimble Unity

ADDITIONAL APPLICATION SOLUTIONS FROM TELOG

LEAK DETECTION MONITORING

- ▶ Reduce main bursts
- ▶ Fixed solution, continuous monitoring
- ▶ Mobile solution, trace & pinpoint leaks
- ▶ Easy to install, easy to use
- ▶ Correlation technology to minimize false positives
- ▶ LTE Wireless, cellular communication

PRV MONITORING

- ▶ PRV inlet/outlet pressure
- ▶ PRV differential pressure
- ▶ PRV valve position sensor
- ▶ Computed flow
- ▶ LTE Wireless communication through buriable antenna

PRESSURE MONITORING

- ▶ Reduce leakage and main bursts
- ▶ At hydrant or in pipe
- ▶ Improve customer service and response time
- ▶ Monitor and optimize water supply and operations
- ▶ Reduce pumping and energy costs
- ▶ LTE Wireless, cellular communication

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