



# Tellog RG-32



## WIRELESS, BATTERY-POWERED RAIN GAUGE RECORDER



### LOW POWER, LOW COST WIRELESS COMMUNICATION DATA RECORDERS FOR RAIN GAUGE MONITORING

When you combine the Tellog RG-32 rain gauge recorder and Tellog Online, cloud solution, 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 Tellog RG-32 employs a Tellog proprietary, low power m2m cellular modem certified for operation on the Sprint, Verizon Wireless and Bell Canada cellular networks.

#### Collecting Data

The Tellog RG-32 may be configured 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 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 an IP66 rated Nema 4x enclosure for a combined weight of two pounds and measuring 6.5 x 3 x 2.2 inches (L x W x H). The Tellog RG-32 is small enough to install on the pole or mounting platform attaching the rain gauge. Because the antenna is enclosed within the Tellog RG-32, the only connection required is the rain gauge.

#### Battery Powered

Powered by a single user replaceable 'D' cell lithium battery, the Tellog RG-32 continuously monitors the output of a tipping bucket rain gauge collecting rainfall data in user defined time increments then transfers the data automatically over a cellular network to a central host computer. The Tellog RG-32 can operate up to five years making on average two calls per day.

#### Software Support

The Tellog HPR-32 is compatible with all Tellog software applications, including 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 tipping bucket style rain gauges

## Benefits

- ▶ Improve asset performance, reduce leakage and pipeline failures
- ▶ Monitor and optimize water and site operations and compliance
- ▶ Real-time situational awareness of rainfall and weather related events

## Features

- ▶ Wireless communication via cellular
- ▶ Alarm notification
- ▶ Time stamped events
- ▶ User programmable
- ▶ 5 year battery life
- ▶ IP66 Rating

# Telog RG-32 WIRELESS, BATTERY-POWERED RAIN GAUGE RECORDER

**RECORDER MODEL: Telog RG-32**

**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  $\mu$ Amps (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** 80,000 interval pulse totals
- Pulse input** 60,000 event time stamps
- Event input**

**Communication:**

- Local RS-232** 5 pin circular connector rated IP67  
Auto-selected baud rate to 19.2K
- 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 LSH 20 or equal  
3800 data calls to host computer  
Examples: 5 years @ 2 calls/day  
2 years @ 6 calls/day  
1 year @ 12 calls/day



**Enclosure**

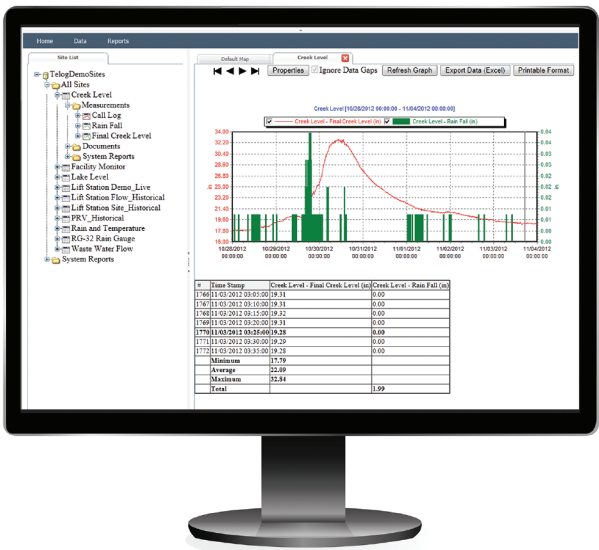
- Size** 6.30" L x 3.2" W x 2.2" H
- Weight** 2 lbs.
- Material** Polycarbonate

**Environmental**

- Temperature** -40 to 158°F
- Rating** NEMA 4x (IP66)

**Support Software**

- S-3PC Telogers for Windows®
- S-3EP Telog® Enterprise
- DHS-Service Telog Online
- TW-UNITY Trimble Unity



Rainfall & Creek Level

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