



Tellog RG-32A



WIRELESS, BATTERY-POWERED RAIN GAUGE RECORDER



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

When you combine the Tellog RG-32A rain gauge recorder and Tellog Online, or Trimble Water Unity cloud 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 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 RG-32A uses a low power, LTE/Cat 1 cellular communication modem certified on multiple cellular systems. This ensures maximum coverage, reliability of service and alignment with cellular carriers technology roadmaps. Additional communication options are also available on request.

Collecting Data

The Tellog RG-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 2.5 pounds and measuring 4"L x 4"W x 3"H [102 mm L x 102 mm W x 76 mm H]. The Tellog RG-32A is small enough to install on the pole or mounting platform attaching the rain gauge. Because the antenna is enclosed within the Tellog RG-32A, the only connection required is the rain gauge.

Battery Powered

Powered by a single user replaceable BP-4 lithium battery pack, the Tellog RG-32A continuously monitors the output of a tipping bucket rain gauge. Rainfall 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 RG-32A can operate up to five years making on average one call per day.

Software Support

The Tellog RG-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 tipping bucket style rain gauges

Benefits

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

Features

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

Tellog RG-32A SPECIFICATIONS

RECORDER MODEL: Tellog RG-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 μ Amps (max)
Pulse width	10 mS minimum
Connection	2 position terminal block for flying leads via water tight fitting
Memory	
Size	128 kB
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 19.2 K Internal Telog WM2/L1 cellular modem LTE Category 1 certified Verizon Wireless FirstNet available in the USA. WM/H HSPA modem certified on Bell in Canada
Cellular	
Local Bluetooth BLE 4.1	
Battery	
Battery Life	Factory installed, field replaceable Telog BP-4 lithium battery pack 5 years nominal 2 data calls/day (@ medium to excellent signal strength)
Enclosure	
Size	4"L x 4"W x 3"H [102 mm L x 102 mm W x 76 mm H]
Weight	2.5 lbs [1.2 kg].
Material	Polycarbonate
Environmental	
Temperature	-40 °C to 158 °F [-40 °F to 70 °C]
Rating	NEMA 6P (IP68)
Support Software	
S-3PC	Telloggers for Windows® 6.51 or later
S-3EP	Tellog® Enterprise 6.51 or later
DHS-Service	Tellog Online
TW-UNITY	Trimble Unity



Rainfall & Creek Level

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