



# Telog RG-32A

## WIRELESS, BATTERY-POWERED RAIN GAUGE RECORDER



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

When you combine the Telog RG-32A rain gauge recorder and Telog 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 Telog is wireless data transfer capability. Using cellular technology enables unmanned monitoring of remote sites as well as instant updates and alarm notifications. The Telog 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.

#### Collecting Data

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

#### Battery Powered

Powered by a single user replaceable BP-4 lithium battery pack, the Telog 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 Telog RG-32A can operate up to five years making on average one call per day.

#### Software Support

The Telog RG-32A is compatible with all Trimble software applications, including Trimble Unity, Telog Online (cloud), 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.

## 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

# Telog RG-32A SPECIFICATIONS

## RECORDER MODEL: Telog RG-32A

<b>Type</b>	Single channel pulse/event recorder with wireless modem
<b>Recording</b>	
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
<b>Memory</b>	
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
<b>Communication:</b>	
Local RS-232	5 pin circular connector rated IP67 Auto-selected baud rate to 19.2K Internal Telog WM2/L1 cellular modem LTE Category 1 certified Verizon Wireless WM/H HSPA modem certified on Bell in Canada
Cellular	
Local Bluetooth BLE 4.1	
<b>Battery</b>	Factory installed, field replaceable Telog BP-4 lithium battery pack
Battery Life	5 years nominal 2 data calls/day (@ medium to excellent signal strength)
<b>Enclosure</b>	
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
<b>Environmental</b>	
Temperature	-40 to 158°F [-40 to 70°C]
Rating	NEMA 6P (IP68)
<b>Support Software</b>	
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

