



Badger Meter

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 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 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 Category M1 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 Telog RG-32A may be configured to call its server application on a schedule (for example, once per day; every four hours) and/or on alarm (for example, in response to a major rainfall event). Data may be stored in the recorder at user-defined intervals (for example, five minutes, one minute, and so on) 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 (1.1 kg) and measuring 4 in. (102 mm) L × 4 in. (102 mm) W × 3 in. (76 mm) 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 our software applications, including Remote Monitoring Software and Telog Online (cloud) application software. This provides utilities with 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





SPECIFICATIONS
Recorder Model 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	3V DC at 20 μ Amps (max.)
		Pulse Width	10 mS minimum
Memory	Connection	2-position terminal block for flying leads via watertight fitting	
	Size	128 kB	
	Storage Method	Wrap around (first-in; first-out)	
Communication	Data Capacity	Pulse input	80,000 interval pulse totals
	Local RS-232	Event input	60,000 event time stamps
		5-pin circular connector rated IP67	
		Auto-selected baud rate to 19.2 K	
	Cellular	Internal Telog Cellular Modem WM2_MWW embedded LTE certified for Cat M1 on Verizon (US) and Bell (Canada); FirstNet available in USA	
Battery	Local Bluetooth BLE 4.1	Module: Telit HE910-GL module/less than 2 W	
		Operational Modes:	
		1) GSM: B2 (1900 MHz) B3 (1800 MHz) B5 (850 MHz), B8 (900 MHz)	
	Factory installed, field replaceable Telog BP-4 lithium battery pack	2) UMTS: B1 (2100 MHz), B2 (1900 MHz), B4 (AWS1700), B5 (850 MHz), B6 (800 MHz), B8 (900 MHz), B19 (800 MHz)	
Enclosure	Battery Life	5 years nominal 2 data calls/day (@ medium to excellent signal strength)	
	Size	4 in. (102 mm) L x 4 in. (102 mm) W x 3 in. (76 mm) H	
	Weight	2.5 lb (1.2 kg)	
Environmental	Material	Polycarbonate	
	Temperature	40...158° F (-40...70° C)	
	Rating	NEMA 6P (IP68)	
Support Software	S-3PC	Telogers for Windows® 6.77 or later	
	DHS-Service	Telog Online	
	TW-UNITY	Remote Monitoring Software	



Rainfall & Creek Level

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