iLR-32 Current Loop Teloger

Wireless, Battery-Powered Process Monitor

Telog's iLR-32 establishes a new standard in low power, low cost cellular communication RTUs for monitoring and alarming remote process instruments and sensors.

Powered by a single user replaceable 'D' cell lithium battery, the iLR-32 continuously monitors the output of a process instrument current loop collecting interval statistics of minimum, average, maximum and/or totals at user defined periods then transfers the data automatically over a cellular network and the Internet to a central host computer. The iLR-32 battery can operate up to five years making on average two calls per day.

The iLR-32 employs a Telog proprietary, low power m2m cellular modem certified for operation on the Sprint, Verizon Wireless and Bell Canada cellular networks. The cellular modem, antenna, process signal conditioning, data recorder and battery are integrated into a small, environmentally rugged package making the iLR-32 easy to install and put into service by connecting only the current loop.

The iLR-32 may be configured to call its host application server on a schedule (e.g. once per day; every four hours, etc.) and/or on alarm (e.g. in response to a process signal excedance condition). Sampling the current loop signal at up to 4 times/second, data statistics (min, average, maximum or totals) 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 with new.

The iLR-32 is supported by Telog Enterprise and Telogers for Windows host application software. Telog also offers a Data Management Service for users who prefer to outsource the computer data collection and management tasks providing end-use information on a secure website.

Contact Telog Instruments or your local Telog Sales Representative for more information on the iLR-32 or other Telog monitoring products and system solutions.

4-20 mA Current Loop Recorder

Alarms & Historic Trend Data

Cellular Communication

Integral Antenna

Small Size

5 Year Battery Life at 2 Calls/Day

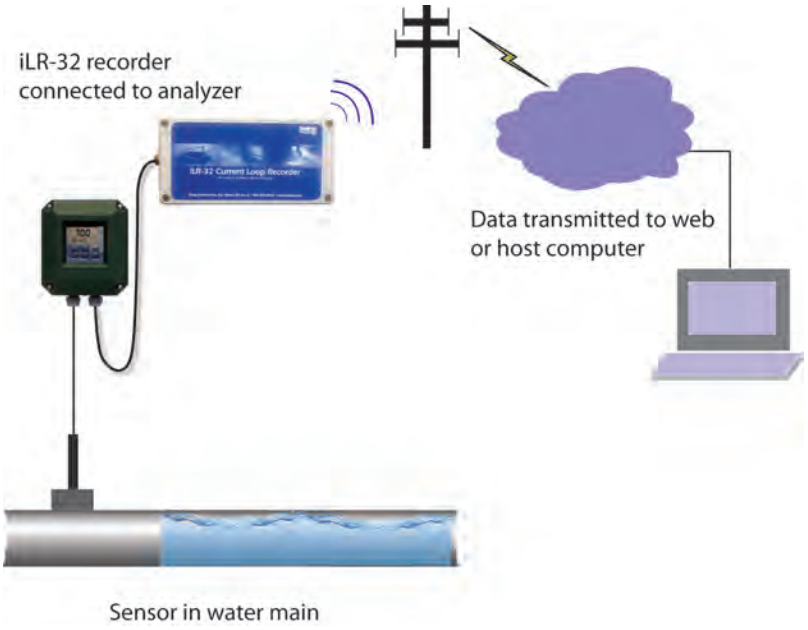
User Replaceable 'D' cell Lithium Battery

Supported by Telog Enterprise Telogers for Windows & Telog's Data Hosting Service

telog®

iLR-32 Specifications

Recorder	
Model	Telog iLR-32
Type	Single channel current loop recorder with integral cellular modem and antenna
Input	
Range	4-20 mA standard; other ranges available on request
Resolution	0.025% of full scale (12 bits)
Accuracy	±0.1% of full scale (32 to 140°F) ±0.15% of full scale (-13 to 140°F)
Loop resistance	55 ohms
Maximum input	±28 VDC; auto-resettable fuse protected
Connection	2 position terminal block for flying leads via water-tight fitting
Recording	
Sample rate	4 per second to 1 per 8 hours; programmable
Clock accuracy	0.01%
Memory size	128 kbytes; 80,000 data values
Storage method	Wrap around (first-in; first-out)
Communication:	
Local RS-232	4 pin circular connector rated IP-67 Auto-selected baud rate to 19.2 kbaud
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	Factory installed single 3.6V Lithium D cell Saft LSH 20 or equal, user replaceable
Battery Life	3800 data calls to host computer Examples: 5 years @ 2 calls/day 1 year @ 10 calls/day
Enclosure	
Size	6.30L x 3.2W x 2.2H"
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
Data transfer unit	IP-67 rated PDA running Palm OS and Telog



Additional Application Solutions from Telog

Wireless Rain Gauge Monitoring

Tipping bucket rain gauge Monitor

Cellular wireless

Battery powered with single 'D' cell lithium battery

Five year battery life

Small Size

PRV Monitoring

PRV inlet/outlet pressure

PRV differential pressure

PRV valve position sensor

Computed flow

Wireless communication via buriable antenna

The buriable antenna is used for underground remote data transmission where fixed cellular antennas cannot be used.

Telog Instruments, Inc.
830 Canning Parkway, Victor, NY 14564-8940, USA
Phone: 585.742.3000 • Fax: 585.742.3006
E-mail: TelogSales@telog.com • www.telog.com

05/14