



RADAR LEVEL RECORDER



** Federal Government Use Only*

DESCRIPTION

A PRECISION water level measuring instrument using radar pulses to measure levels without direct contact with water, the RLR can be located on a bridge, pier or any structure over the water's surface.

Unlike Radar Level Sensors, Sutron's *Radar Level Recorder is a logging sensor - recording data at user-selected intervals*. Its 6-button, 2-line LCD front panel allows easy access to set-up, data and adjustments. Laptop, desktop, and pocket PCs can retrieve data downloads via an RLR command line.

SPECIAL FEATURES

- Special pulse-echo technique that provides 0.001 FT RESOLUTION & 0.01 FT ACCURACY
- NOT AFFECTED BY AIR TEMPERATURE & HUMIDITY, common problems with ultrasonic-type sensors
- BUILT-IN DISPLAY for viewing data during installation (RLR-0001-1 only)
- >300,000 readings DATA RECORDING MEMORY
- SDI-12 & RS232 interfaces
- Powerful data processing modes including NOAA DQAP & moving average
- Diagnostic features include recording of signal strength and standard deviation.
- Integrated antenna
- Operates as stand-alone station or with other DCP
- Connects to a SatLink2 Transmitter/Logger for SATELLITE COMMUNICATIONS or a CELL MODEM.

ORDERING

- RLR-0001-1** Radar Level Recorder (w/10 ft SDI cable)
Do not install the RLR-0001-1 outdoors unless it is inside an outdoor enclosure such as #6661-1265-2.
- 6661-1265-2** Optional Outdoor NEMA-4 Enclosure for RLR-0001-1. Order separately.
- RLR-0003-1** RLR, no display, with 25 foot cable

- High Accuracy
- 0.01 ft
- Range - 60 ft
- Integrated or Separate Antenna
- Redundant/ Back-Up Data



SPECIFICATIONS

RADAR TYPE	6.2 GHz pulse echo
BEAMWIDTH	±16° HPBW
RANGE	60 feet (18.3 meters)
ACCURACY	0.01 ft (3mm) up to 20 ft; 0.05% above 20 ft
RESOLUTION	0.001 ft
CLOCK	Internal real-time clock w/battery backup ±2 minutes a month (0 to +50C).
LOG INTERVALS	User selectable
SAMPLING RATE	10 Hz
AVG. INTERVALS	User selectable
LOG CAPACITY	>300,000 Readings Flash Memory for Data & Events (see Features)
OPERATOR INTERFACE	1. 6-button front panel w/2-line display & status lights. (RLR-0001-1 only) 2. SDI-12 3. Command line via RS-232
DATA DOWNLOADS	Laptop, desktop, pocket PC via command line
PASSWORD	Required password option for setup changes & stage adjustments
SETUP DATA	Setup stored in non-volatile flash memory
STATUS LIGHTS	Two on front panel – provide "heartbeat" and run/error status (RLR-0001-1 only)
ENCLOSURE	NEMA rated enclosure – resists dripping water and spray RLR-0001-1 is not suitable for outdoor installation without appropriate enclosure.
TEMPERATURE	-40 to +60 °C (LCD operates -10° C)
DATA CONNECTION	RS 232 DB9 (female) for direct connection to PC/ PDA/cell modem Provides +5V on pin 9 w/capacity of 71 mA to power external devices, ie, BlueTooth, etc.
POWER CONSUMPTION	<0.25 mA @ 12 VDC standby <15 mA @ 12 VDC active

Specifications subject to change without notice



RADAR LEVEL RECORDER

SUTRON FOR INFO & PRICING PLEASE CALL.

Sales Admin. & Ordering
Sterling, VA
(703)406-2800, ext. 217
Email: dtarr@sutron.com

Integrated Systems
Sterling, VA
(703)406-2800, ext. 304
Email: araval@sutron.com

Northwestern Region
Boise, Idaho
Tel: (208)345-5244
Email: jhumphreys@sutron.com

Southwestern Region
Sandy, Utah
Tel: (801)942-2061
Email: wwinegar@sutron.com

Central Region
Austin, TX
Office: (512) 351-9208
Email: tcolgan@sutron.com

Northeastern Region
Sterling, VA
Cell: (540) 429-1928
Email: ptucker@sutron.com

Southeastern Region
Sorrento, FL
Tel: (352)357-9430
Email: wloseman@sutron.com

Florida & Latin America
Deltona, FL
Tel: (386)601-0075
Email: tsoto@sutron.com

Tide Stations & Special Projects
(703)406-2800
Email: tkeefe@sutron.com

GOES Satellite Services
Ellicott City, MD
(410) 715-1117
Email: mmaloney@sutron.com

Customer Service
(703)406-2800
Email: cs@sutron.com

Airport Weather Systems
Email: rarpino@sutron.com

Hydrological Services
Installation/Maintenance
Brandon, FL 33511
Tel: (813) 657-8933
Email: bill@sutron.com

Hydrological/Hydraulic,
Environmental Science
West Palm Beach, FL
Tel: (561) 697-8151
Email: skone@sutron.comtion/



RLR-0001-1 Radar Level Recorder including Integrated Antenna (w/10 ft SDI cable)

Do not install the RLR-0001-1 outdoors unless it is inside an outdoor enclosure such as #6661-1265-2.



RLR-0003-1 Radar Level Recorder no display, with integrated antenna & 25 foot cable



ISO 9001