



RADAR LEVEL RECORDER



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



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

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.

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Hydrological/Hydraulic,
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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

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