

# Automatic Water Level Recorder (Radar Type)



“Instrumex” make Automatic Water Level Recorder (Radar type) reflect state of the art in micro controller based instrumentation design. The Radar Level sensor can be attached with this IP65 data logger for the collection of real time data automatically. It comes with facility to transport Data from Data Logger to a P.C. through various modes (As per Customer requirement). 16x2 LCD alphanumeric display and 4x2 membrane keypad is provided at front panel of data logger for programming data logger and monitoring sensor reading at site without the help of computer. Comes with different ranges for Liquid: 8, 15, 35, 70 & 120 meters. Data file is saved in Microsoft’s Excel. This instrument is used for continuous level measurement of liquids or bulk solids. Typical applications are the measurement of liquids in storage tanks or open basins. The sensor is also suitable for the detection of bulk solids in small vessels or open containers. The non-contact measuring principle is independent of product features and allows a setup without medium.



## Features & Specifications

- Sensor Type: Radar Type Water Level Sensor
- Parameter Monitored: Date, Time, Instantaneous Water Level, Maximum Water Level (Log Rate), Minimum Water Level (Log Rate).
- Display: 16 Characters X 2 Lines alphanumeric display,
- Keyboard: 4x2 membrane keypad for onsite programming of data logger.
- Real Time Clock accuracy: Internal with  $\pm 2$  minutes / year & leap year compensation
- Number of Channels: Eight (extendable up to 16 at extra cost).



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- Channels Configuration: Factory configured sensors as per purchase order.
- Settling time < 5 sec , Repeatability:  $\pm 0.05$  % Full Scale
- Accuracy:  $\pm 0.1$  % Full Scale
- Memory: more than 16000 data sets (extendable @ extra cost). Store 1 year data at user's selectable 1 hour logging interval.
- ADC Resolution: 16+ bits
- Unattended recording of Water Level. Virtually maintenance free
- Logging Interval: 1 min to 24 Hr program log Start time within next 24 hours
- Operating Temperature: - 40 to 75 °C. Humidity: 0 to 95 % non-condensing.
- Power Supply: 12V SMF battery, Charging: Solar Panel / 220V AC (Optional). Battery easily Available in local Market
- Solar Panel:: 12 Volt DC, Wattage: 10, 20 & 40 Watt (as per system power requirement)
- Along with Small Stainless Steel Tripod
- Data Output Format: MS- Excel
- Data retrieval: Data shuttle (default) to Computer. Other options also available (at extra cost).

**Other options:** Ethernet, 2G/3G/4G enabled Web based telemetry at Instrumex Portal “[www.instrumex.ae](http://www.instrumex.ae)”.

## Application Software (Instrumex)

This is a user-friendly, Menu Driven, Windows based software allows you to view & save collected data from data logger to computer/laptop. Data file is saved in Microsoft's Excel format.



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SN	Description	Model No.
1	AWLR with Data Shuttle option	AWLR-VH-R-D-XXX-YYY
2	AWLR with Ethernet option	AWLR-VH -R-E-XXX-YYY
3	AWLR with GPRS enabled WEB-Based Telemetry option	AWLR-VH -R-GPRS-XXX-YYY

**\*XXX represents Measuring Range of the sensor (010, 020, 050, 070, 100, 200 or 300)**

**\*YYY represents cable length of the sensor (020, 050, 070, 100, 200 or 300)**

Please mention Measuring Range information along with your enquiry / Purchase order

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**\*\*Drawing/specifications are subjected to change at any time without prior notice as per manufacturing suitability.**

