

Automatic Leaf Wetness Recorder

“Instrumex” make Automatic Leaf Wetness Recorder is a fully computerized, digital and self contained power source system, fitted with IP65 Data Logger and battery charging solar panel with rechargeable, maintenance free batteries complete with sensors mounted on a tripod stand with sealed waterproof enclosure for Data Logger, Solar charger and battery.

Features:

- Display: 16 Characters X 2 Lines alphanumeric display,
- Keyboard: 4x2 membrane keypad for onsite programming of data logger.
- Measured Parameter – **Date, Time, Leaf Wetness, Air Temperature, RH & Battery Voltage.**
- Real Time Clock accuracy: Internal with ± 2 minutes / year & leap year compensation
- Number of Channels: 8 can be extendable up to 16 channels (at extra cost)
- Channels Configuration: Factory configured sensors as per purchase order.
- Logging Interval: 1 min to 24 Hr program log Start time within next 24 hours
- Data Storage: store 1 year data at user’s selectable 1 hour logging interval.
- Operating Temperature: - 40 to 75 °C. Humidity: 0 to 95 % non-condensing.
- Power Supply: 12V SMF battery, Charging: Solar Panel / 220V AC (Optional).
- Solar Panel:: 12 Volt DC, Wattage: 10, 20 & 40 Watt (as per system power requirement)
- Battery Life: More than 1.5 Years (Easily Available in local Market)
- Along with Small Stainless Steel Tripod
- Data retrieval: Data shuttle (default). Other options also available (at extra cost).



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Other options: Ethernet, 2G/3G/4G enabled Web based telemetry at Instrumex's Portal "www.instrumex.ae".

Air Temperature & Relative Humidity Sensor



Temperature Range: - 40 to 123.8 ° C.
Accuracy: ± 0.5 ° C @ 5 to 40° C.
Resolution: 0.01 ° C Typical.
RH Range: 0 to 100 %.
Resolution: 0.5 % RH Typical.
Accuracy: $\pm 2\%$ @ 20 to 80 %
Long term stability: Typ <1%RH/ Year
Repeatability: ± 0.1 %.

Application Software (Instrumexware)

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

Leaf Wetness Sensor



Sensor Output: Resistance varies from above 3,000,000 ohms when dry to around 1, 000 ohms when wet
Sensor Range: 0 to 100% of the dew range, frost and freezing conditions will not harm the sensor
Response Time: 0 to 100% relative dew within six minutes
Output: voltage output (Analog)

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Ordering Guide

SN	Description	Model No.
1	LWR with Data Shuttle option	LWR -VH-SS-D
2	LWR with Ethernet option	LWR -VH-SS-E
3	LWR with 2G/3G/4G WEB-based Telemetry	LWR -VH-SS-GPRS

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