

Accessible and actionable evapotranspiration measurements

LI-COR Cloud™ & IoE™ Module

Complete your evapotranspiration measurement system with LI-COR Cloud and the IoE Module. Working in a system with the LI-710 Evapotranspiration Sensor, LI-COR Cloud and the IoE Module provide you with entirely remote access to your evapotranspiration measurement data.

The IoE Module is on-site hardware that transfers measurement data from an IoE-enabled LI-710—called the Water Node—directly to LI-COR Cloud. The module hardware includes a solar power system, a mounting pole, and cellular communication equipment—everything you need to mount, power, and connect your sensor to the cloud. LI-COR Cloud is cloud-based software from which you can view, share, and download the Water Node's data whenever and wherever necessary.

What is IoE?

The IoE is a network of hardware and software that connects sensors and software so you can collect, store, access, analyze, visualize, and forward data using a single system from LI-COR.

When an instrument like the LI-710 is IoE enabled, it means it has been connected to LI-COR Cloud via the on-site IoE Module, and you can now access its data from anywhere.

To learn more about LI-COR Cloud and the IoE Module, visit licor.com/water-node.

The IoE logo consists of the lowercase letters 'ioe' in a white, sans-serif font, positioned on a blue triangular background that points towards the top right.



Key Features

- Invite collaborators to easily access the actual evapotranspiration measurement data via LI-COR Cloud
- View, forward, and analyze data from any location for improved collaboration and research expansion
- Install quickly and easily with a straightforward, guided configuration that requires no technical expertise
- Deploy the LoE Module in a variety of ecosystems thanks to the system's durable, weather-resistant design
- Get access to LI-COR Cloud at no additional cost with the purchase of an LoE Module, so data is available immediately
- Group other owners' Water Nodes together to form a large virtual network across a broader landscape
- Power the LoE Module anywhere with the integrated solar panel
- Connect the LoE Module to LI-COR Cloud with included cellular communication capability

Specifications

General

- Operating Temperature Range:** -25 to 50°C
- Operating Humidity Range:** 0 to 95%, non-condensing
- Storage Temperature Range:** -40 to 65°C; 85% RH
- Ingress Protection:** IP24 Rating
- Enclosure Flame Rating:** UL94-V-0
- Total System Weight:** < 55 kg (< 121 lbs.)
- Size (not including guy wires or pole):** 42x110x108cm (16.5"x43"x42.5")
- Display:** 35 x 55 mm; monochrome

Solar Power

- Solar Panel:** 100 Watt Monocrystalline
- Battery:** 12V, 100Ah AGM
- Battery Weight:** 25Kg (55 lbs.)
- Charger:** 9A MPPT (Maximum Power Point Tracking) Charger

Auxiliary Power Input

- Input Voltage Range:** 9 to 33 V
- Maximum Current:** 2.2 A

Digital Inputs/Outputs

- SDI-12 Eddy Covariance Sensor:** 1
- SDI-12 ports for other sensors:** 2
- Output Voltage:** 12 V
- Maximum Total Current:** 2.5A
- Micro USB port for firmware updates**

Mast

- Maximum Height w/ LI-710:** 5M (198 in.)
- Maximum Load on Mast:** 4.54 kg (10 lbs.)
- Soil Anchors:** 3 with guy wires

Data

- Data Storage:** Removable Industrial Micro SD card; 8 GB.
- Message Buffer:** If the modem is offline, data is stored until connectivity is restored.
- Data Format:** Text, Comma-separated values (CSV)

GNSS (GPS) Support:

- GPS receiver for time synchronization and location information.

Cellular

LTE CAT1

- Data Transfer Frequency:** Data sent every half-hour.

Regional Approvals:

- | | |
|--------|-------------|
| USA | Australia |
| EU | Greenland |
| UK | Switzerland |
| Norway | Canada |

Specifications subject to change without notice.