

LGate 330

COMMERCIAL SOLAR MONITORING SOLUTION

Locus Energy’s LGate 330 is a performance data acquisition kit for commercial solar photovoltaic systems. Designed to integrate easily into three-phase PV systems of all sizes, the LGate continually collects a multitude of energy and environmental data allowing site owners and operators to efficiently manage solar assets.



The LGate 330 can be configured to monitor nearly any type of PV system. The standard configuration consists of an industrial grade datalogger and revenue-grade energy meter mounted inside a weatherized enclosure. All LGates are shipped with integrated disconnect breakers making field installation much simpler. In addition, each unit can be configured to aggregate data from a large variety of peripheral devices such as inverters, string/sub-array combiner boxes and weather stations.

DATA COLLECTION

The LGate uses the RS-485 Modbus protocol to communicate with downstream devices. Any device that supports Modbus can be connected and monitored by the LGate. Up to 250 devices can be connected through the Modbus loop. All data is collected, timestamped and then stored in non-volatile memory. This interval data is stored locally until the next scheduled upload.

CONNECTIVITY

Once the LGate collects and stores performance data from connected devices, it will upload batches of data at regular intervals to the Locus Energy Smart Monitoring website. The LGate can transmit data over Ethernet, powerline carrier (PLC) or cellular networks. The integrated datalogger can be set to communicate through almost any type of local area network.

ABOUT LOCUS



Locus Energy develops web-based asset management software for renewable energy systems. We provide monitoring, analytics and data services for deployments of solar photovoltaic and solar thermal technology. By leveraging Locus’ products, renewable integrators can drive down the cost and complexity of energy monitoring while making it much easier to maintain and service an installed client base. Founded in 2007, Locus is based in New York City and serves clientele across the world.

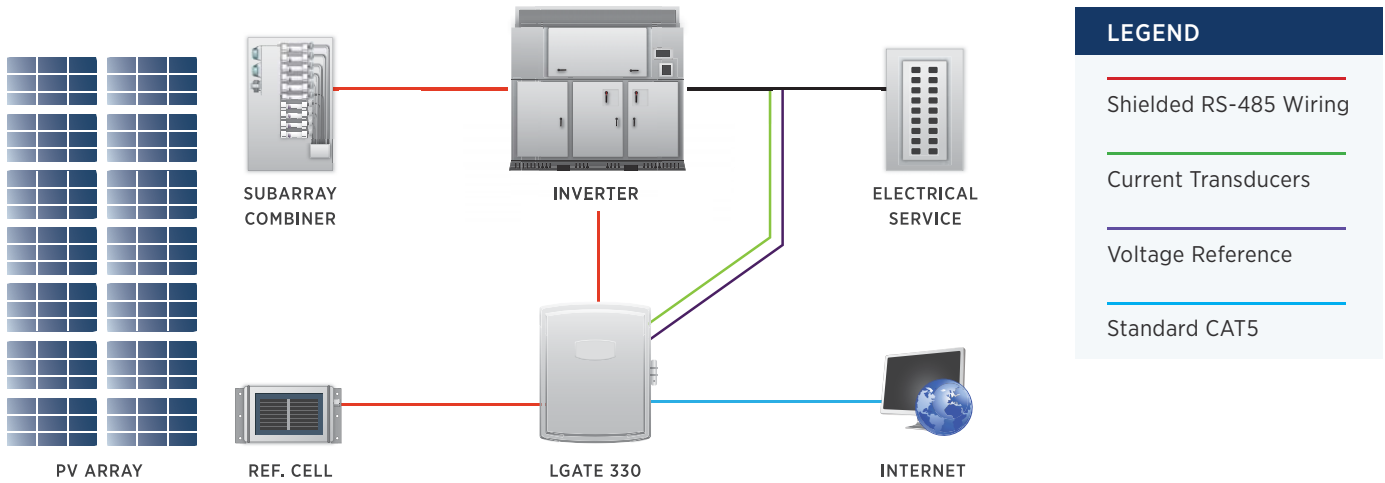
SOLUTIONS



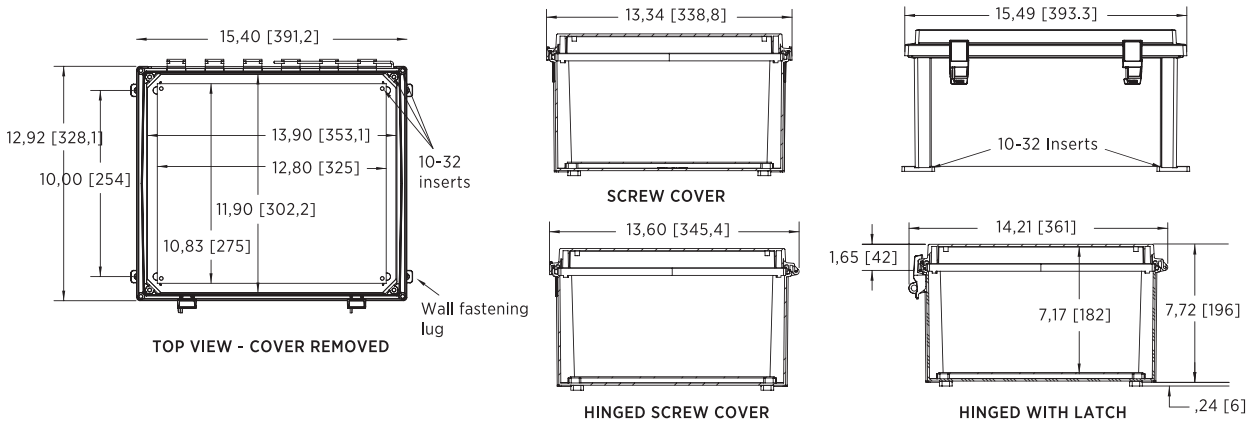
Locus Energy offers Smart Monitoring software services tailored to the following groups to help maximize the performance of renewable assets:

- Installers
- Financiers
- Utilities
- OEMs
- Regulators

DIAGRAM - TYPICAL CONFIGURATION



DIMENSIONS



SPECIFICATIONS

DATALOGGER		COMPLIANCE	
Processor	ARM9 embedded CPU	ANSI C12.20 Class 0.2	
OS	Linux 2.6	IEC 61010 (Safety)	
Memory	32 MB RAM	FCC 15 Part B	
Logging interval	1 to 60 minutes, user selectable (default 5 minutes)	IEC 60068-2-27 (Mechanical shock)	
Display	2 x 16 LCD character	IEC 60068-2-6 (Mechanical vibration)	
		CFR 47 ANSI C63.4 (Radiated emissions)	
COMMUNICATION		PHYSICAL	
LAN	RJ45 10/100 Ethernet, full half duplex, auto polarity	Enclosure	NEMA 4
Cellular (optional)	GSM/CDMA	Weight	18 lbs
Networking	DHCP or hard static IP	Dimensions	14" L x 12" W x 7" H
		Environment	-30 to 70C, 95% RH, non-condensing
POWER METER			
Voltage Inputs	600/347V, 480/277V, 208/120V		
Phases	Single phase, Split phase, Three phase at 50 or 60 Hz		
Current Inputs	mV full scale output CTs, mA output solid/split core CTs, 5A from standard CTs		