

# HRMS-E32G

HRMS-E32G series 4G **GSM-based data logger** is ideal for remote monitoring of solar power plants and weather sensors. Weather Sensors can be connected to the RS-485 MODBUS interface.



- ✓ A 32-bit dual core Microcontroller Based datalogger
- ✓ GSM/GPRS internet (4G, LTE sim)
- ✓ Complete Remote Configuration
- ✓ Modbus RTU Support
- ✓ SD card-based data Storage
- ✓ Plug and play with easy installation

## Application:

- ✓ Rooftop/ Ground mounted Solar power plant for remote monitoring using **4G GSM-based internet**.
- ✓ Weather Sensor measurement and data logging

# HRMS-E32G

## Technical Specification

Power Supply		Cloud Server	
<b>Voltage</b>	12-24VDC	<b>Default server</b>	SolarLogIQ – (Holmium Server)
<b>Power Consumption</b>	2W	<b>Client-server</b>	configurable
<b>Max. Allowed Voltage</b>	30VDC	<b>Protocol</b>	FTP/HTTP/MQTT/JASON/CSV
		<b>Data interval</b>	5 min (default)*
CPU Unit		Configuration	
<b>Micro Controller</b>	A dual-core 32-bit LX6 Xtensa® microcontroller with 16MB Flash	<b>configuration</b>	Remote Server based
<b>SRAM</b>	520kB	<b>Wi-fi setting</b>	Wi-Fi-based local APP
<b>Wi-Fi</b>	In-built, 802.11 b/g/n (2.4GHz), up-to 150 Mbps	<b>No of slave</b>	Up to 8 Modbus RTU slaves
<b>Clock and Timer</b>	RTC Watchdog timer with cell based RTC.	<b>Firmware update</b>	Remote Server/ FOTA based
		Data Storage	
		<b>Storage Type</b>	Micro SD Card based
		<b>Capacity</b>	16 GB
Slave Communication Interface		Protection	
<b>No of RS-485 Port</b>	1	<b>I/O Protection</b>	ESD Protection on all Pins >4KV
<b>Protocol</b>	MODBUS RTU/ SUNSPEC	<b>Power Supply</b>	Transient Voltage Suppression with 400W peak pulse power capability
<b>Baud rate</b>	9600, 19200, 115200	<b>Port Isolation</b>	Optical type
<b>Connector</b>	Screw Terminal, 3.5mm		
<b>Wire Size</b>	28-16AWG 1.5mm <sup>2</sup>		
<b>Analog I/o</b>	4 Ch. With 12-bit ADC		
<b>Digital I/O</b>	4 Ch. (24 Vdc)		
Internet Connectivity		Physical Dimension	
<b>Connectivity</b>	GSM/LTE (4G)	<b>Encloser Type</b>	MS Powder Coated
<b>LAN configuration</b>	Local interface app	<b>Dimension</b>	124x172mm
		<b>Weight</b>	0.5kg
Certification		<b>IP rating</b>	IP20 (indoor)/ IP65(Optional)
<b>CE Compliance</b>			
Environment		Miscellaneous/ Packaging	
<b>Operating temp.</b>	0°C to 65°C	<b>Antenna</b>	3dbi with magnetic base, 3m Wire
<b>Humidity</b>	5 to 95 % RH non-condensing	<b>Power supply</b>	Adaptor 12V 2A
<b>Installation Area:</b>	No direct sunlight and Rainfall	<b>Encloser (IP65)</b>	With AC source point (optional)**
		<b>Manual</b>	Installation manual (website)

\*\*Outdoor IP65 encloser with AC power supply is additional and paid.