

MAGNO Collector I

Smart Data Concentrator Unit












Magno Collector I is a cutting-edge smart PLC Data Concentrator Unit (DCU) functioning as a versatile Gateway. It features a plug-and-play GPRS/3G/4G modem and Ethernet RJ45 port for seamless remote communication. With multiple neighbouring network communication options, it can adapt flexibly to various installation sites.

Magno Collector I boasts excellent interoperability and compatibility through its use of the DLMS/COSEM protocol, making it an intelligent choice for efficient meter data collection solutions.

Magno Collector I Main Functionalities:

Icon	Function	Description
	SMS Function	<ul style="list-style-type: none">➤ Support wakeup by SMS➤ HES IP and port can be configured by SMS
	LCD Display	<ul style="list-style-type: none">➤ Lattice LCD: 208×80 dots (optional)➤ Wide viewing angle➤ Highlighting Backlight
	LED Indication	<ul style="list-style-type: none">➤ Power indicator➤ Running indicator➤ Alarm indicator➤ Online indicator
	Events	<ul style="list-style-type: none">➤ Up to 100 event records, such as: power on, power off, clock error, unknown meter registration etc.➤ Support events report to HES .
	Alarm	<ul style="list-style-type: none">➤ LED Alarm➤ Alarm events are configurable
	Clock	<ul style="list-style-type: none">➤ Hardware clock IC➤ Accuracy ≤ 0.5s /day under 23°C➤ Local and remote clock synchronization
	Backup Power	<ul style="list-style-type: none">➤ Large supercapacitor➤ Continue to work one minute when power off
	Firmware Upgrade	<ul style="list-style-type: none">➤ Local and remote firmware upgrade➤ Support breakpoint resume

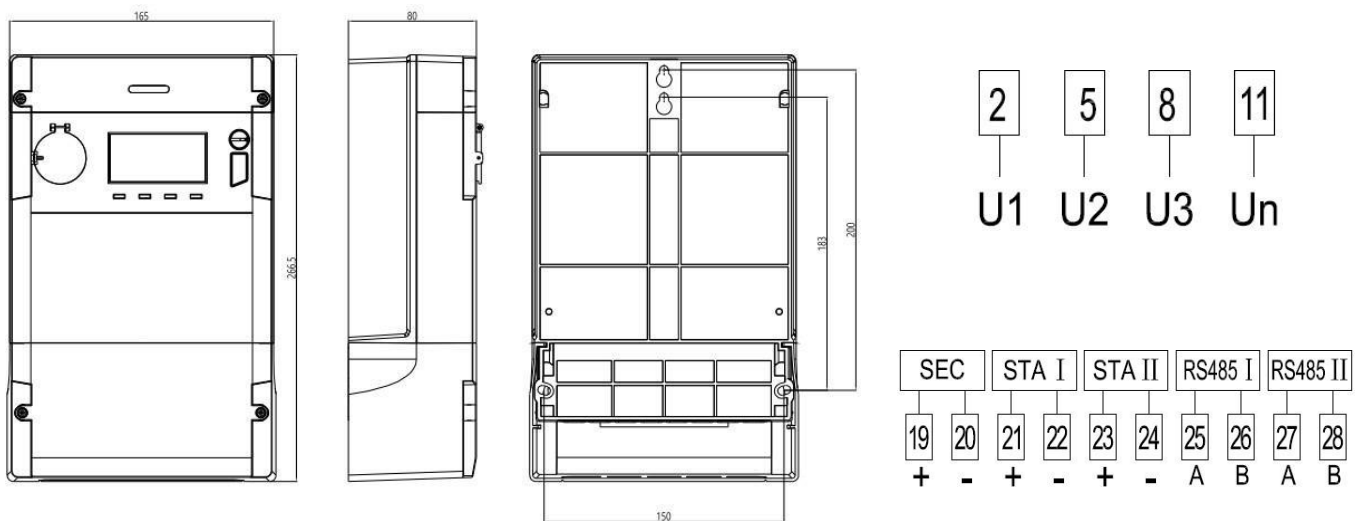
Magno Collector I Main Functionalities:

Icon	Function	Description
	Configuration	<ul style="list-style-type: none">➤ CPU frequency: 200MHz➤ Operating system: RTOS➤ Management ability: up to 800 meters➤ Flash memory size: 1Gb➤ Eeprom memory size: 512Kb
	Data Collection	<ul style="list-style-type: none">➤ Manages up to 500 PLC meters.➤ On-demand & scheduled reading of meters are supported.➤ In gateway mode provides transparent access to meters.
	Data Storage	<ul style="list-style-type: none">➤ Days freezing: 31 days➤ Months freezing: 12 months➤ Load profile: time interval up to 15 min➤ Even record: up to actively report
	Acquisition Strategy	<ul style="list-style-type: none">➤ Real-time response➤ On time acquisition➤ On task acquisition➤ Actively report➤ Transparent transmission
	Remote Communication	<ul style="list-style-type: none">➤ Modular plug and play GPRS/3G/4G units➤ Ethernet with RJ45 port➤ Support TCP/IP server and client mode➤ Support permanent online or part time online mode
	Local Communication	<ul style="list-style-type: none">➤ G3PLC/HPLC/SFSK PLC/Mesh-RF/LORA units➤ Up to 2 RS485 ports➤ Support multi-thread reading
	Near Field Communication	<ul style="list-style-type: none">➤ Bluetooth: conform to BLE 4.0/4.2/5.0➤ Support connection with PDA or laptop
	Maintenance Ports	<ul style="list-style-type: none">➤ Optical port➤ USB port➤ RS232 Port
	Communication Protocol	<ul style="list-style-type: none">➤ International open protocol➤ IEC62056-21 E mode DLMS➤ HDLC DLMS and TCP/IP DLMS➤ Gateway DLMS

Magno Collector I Technical Specification:

Description	Value
Rated voltage	3x220/380V~3x240/415V
Operating voltage range	60%Un~130%Un
Rated frequency	50Hz or 60Hz $\pm 5\%$
Power Consumption	Voltage circuit < 3W or 10VA ,Current circuit < 4VA
Battery and Life	Replaceable Lithium battery, life more than 10 years
Typical Working Temperature	-40°C to +70°C, Humidity is up to 95%
EMC Performance	Impulse voltage > 8KV, AC voltage > 4KV, Surge voltage > 4KV, Electrostatic Discharge > 8KV&15KV etc.
Protection class	IP54 comply with IEC60529 Insulation grade II
Housing material	Polycarbonate with non-conductive, high impact, smooth finish, durable, non-flammable, UV stabilized, UV resistant and high resistance to weathering
Dimension (H x W x L)	266.5mm×165mm×80mm

Magno Collector I Diagram:



Electro Digital Meter Project Management Services Company

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