

OPTION

CloudGate

Probe



NEW

The Ultimate Smart Metering companion

- Compact DIN rail mountable metering device.
- Monitor assets like utility meters remotely.
- Read data from devices via the built in Modbus (RTU), M-Bus (Wired), Digital or Analog Input.
- Control assets via 1x Digital Output (e.g. relay or actuator) or 2x Analog Outputs.
- Cellular (LTE-CATM, NB-IoT)

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General description

CloudGate Probe is a compact DIN rail mountable metering device that can connect devices over Modbus (RS-485), M-bus, Digital & Analog Input to a Cellular (NB-IoT/LTECatM) network. This permits to monitor assets and buildings remotely in a convenient way.

As a low cost and compact device, the CloudGate Probe can read and transmit data of nearly any meter to any IoT platform. The device can also be used to change settings or the state of an actuator like an HVAC device, control valve, relay, etc.

The CloudGate Probe NB-IoT is intended to be used in asset monitoring (i.e. pumps, generators, etc.)

Use case: Smart Building

CloudGate Probe can be used as an aggregator that can receive and transmit data from, and to, a master device in a building. Reading multiple meters, via interfaces like Modbus, M-bus or pulse counters, controlling HVAC actuators like heat pumps, ventilation and heating systems and to a limited and safe extent adjusting parameters like temperature, ventilation power, lights, shading, etc.

Use case: Assets monitoring

CloudGate Probe can be built into HVAC assets to allow efficient pro-active maintenance. It also enables a service engineer to know what the situation is like before going on-site. This way service interventions can be scheduled more efficiently.

Technical Specifications		
Mechanical information	Formfactor / Mounting	DIN-rail mountable device 2 U wide
	Material	PC/ABS
	Weight	74 g
Electrical information	Option A: AC-powered	85-305Vac
	Option B: DC-powered	24Vdc +/-10%
	Max. power consumption	4W
Technical information	Modem	<ul style="list-style-type: none">• LTE Cat M1 / Cat NB2• EU bands: B3/B8/B20• International coverage (on demand)• Integrated GNSS receiver• 2x External antenna (SMA)
	M-Bus mini-master	<ul style="list-style-type: none">• 34V bus power• up to 4 Unit Loads• Screw terminal connection
	Modbus interface	<ul style="list-style-type: none">• RS485• Half duplex• Screw terminal connection
	Analog input	<ul style="list-style-type: none">• Configurable• 0-3.3V input conversion• 0-10V input conversion
	Digital input	<ul style="list-style-type: none">• Configurable• CMOS input 0-3.3V• Dry contact input
	Analog outputs	<ul style="list-style-type: none">• 0-10V output +/-0.01V• 4-20mA output +/-1%
	Digital output	<ul style="list-style-type: none">• Configurable• CMOS output 0-3.3V• Open Drain output (<250mA)
	Optional Last-Gasp backup power	Offering >10s operation following power-outage.
Environmental information	Operating temperature	-20°C to 60°C
	Humidity	5% to 95% relative humidity (noncondensing)
	IP Class	IP20
Certificates		CE Radio Equipment Directive (RED) 2014/53/EU, RoHS/REACH, WEEE

Product	PN
CloudGate Probe NB-IoT	CG1010-12256