



DIG-M-2

DIN rail mounted Sentera Internet Gateway

DIG-M-2 Internet Gateway connects a single Sentera device or a network of devices with the Internet in order to configure or monitor them via SenteraWeb. The DIG-M-2 makes wireless or wired connection with the Internet router. The unit has 2 Modbus RTU channels - a Master channel to communicate with the connected Slave devices, and a Slave channel to make the unit accessible for a Master controller or a BMS.



Key features

- 24 VDC supply voltage, Power over Modbus (PoM)
- Sentera devices can be connected via RJ45 (Modus RTU Master channel)
- Backup battery for real time clock, in case the power supply is interrupted
- Data transmission to and from the Internet via standard Ethernet or Wi-Fi
- · Heartbeat protocol
- Firmware update via the Internet
- LED indications: Connect, Error, RXD/TXD
- Implemented MQTT protocol
- Supports TCP Client/UDP Client/HTTP Client mode
- Enclosure: DIN rail mounted, plastic ABS, UL94-V0, grey RAL 7035

	Techi	nical specifications		
Supply voltage	24 VDC, Power over Modbus			
Imax		330 mA		
Output voltage for connecting slave devices		24 VDC		
Operating conditions	Temperature	-40—85 °C		
Operating conditions	Relative humidity	5-85 % rH, non-condensing		
Protection standard		IP20		

		Wiring diagram			
		RJ45 socket (Power over Modbus)			
Pin 1	24 VDC	Supply voltage			
Pin 2	24 VDC	Supply voltage			
Pin 3	А	Modbus RTU communication, signal A			
Pin 4		Moubus KTO communication, signe			
Pin 5	/B	Modbus RTU communication, signal /B			
Pin 6	,,,	Floubus KTO communication, signal / B			
Pin 7	GND	Ground, supply voltage			
Pin 8	GIND	Ground, suppry voitage			
GND ***	7	77			
/B					
24 VDC ^{8 mm}	1	OI			

Area of use

- Connect your HVAC installation to the online SenteraWeb portal
- Push application dedicated firmware and/or standard firmware updates via the SenteraWeb into the connected devices
- Update setpoints, ranges and other parameters from the connected Sentera slave devices
- Data monitoring and data logging via the SenteraWeb Service Database
- Gateway for warnings and notifications (e.g. clogged filter notification, motor failure alarm, etc.)

Standards

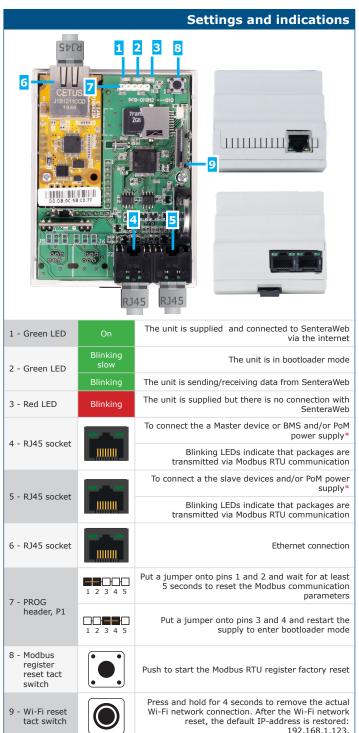
- Electromagnetic compatibility Directive 2014/30/EU
- -EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use EMC requirements Part 1: General requirements;
- -EN 55011:2009 Industrial, scientific and medical equipment Radio frequency disturbance characteristics Limits and methods of measurement Amendment A1:2010 to EN 55011
- -EN 55024:2010 Information technology equipment Immunity characteristics Limits and methods of measurement
- -EN 50561-1:2013 Power line communication apparatus used in low voltage installations Radio disturbance characteristics Limits and methods of measurement Part 1: Apparatus for in-home use EN 61000- 6-3:2007
- LVD directive 2014/35/EU:
- -EN 60950-1:2006 Information technology equipment Safety Part 1: General requirements. Amendments AC:2011, A11:2009, A12:2011, A1:2010 and A2:2013 to EN 60950-1
- -EN 62311:2008 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz 300 GHz)
- Radio equipment directive 2014/53/EU:
 - -EN 300 328 V2.1.1 Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
- ETSI EN 301 489-1 V2.1.1 (2017-02) Electromagnetic Compatibility (EMC)standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU
- ETSI EN 301 489-17 V3.1.1 (2017-02) Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
- RoHs Directive 2011/65/EU
 - -EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances



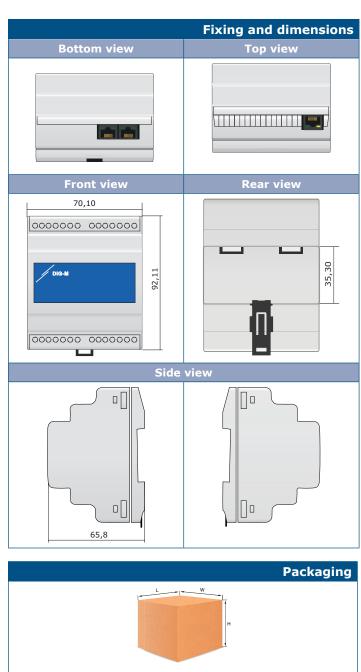
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^{*}Do not connect 2 circuits with PoM power supply at the same time. This will possibly destroy the unit and / or the power supplies.



Article	Packaging	Length [mm]	[mm]	Height [mm]	weight	weight
DIG-M-2	Unit (1 pc.)	100	75	81	0,13 kg	0,19 kg
	Box (60 pcs.)	590	380	280	7,9 kg	12,2 kg

Global trade item numbers (GTIN)		
Packaging	DIG-M-2	
Unit	05401003017661	



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