



## DIGWM

## DIN rail mounted Sentera Wi-Fi Internet Gateway

DIGWM is an internet gateway to connect a stand-alone Sentera device or a network of devices to the Internet in order to configure or monitor them via SenteraWeb. The DIGWM makes wireless connection with an existing WiFi network. 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.



- Power over Modbus. 24 VDC supply voltage and Modbus RTU communication can be connected via the RJ45 socket
- Firmware update via SenteraWeb
- Data transmission to and from the Internet via Wi-Fi (WLAN 802.11 b/g/n)
- Backup battery for real time clock, in case the power supply is interrupted
- · LED indications: Connected, Error, bootloader mode
- Implemented MQTT protocol
- Supports TCP Client/UDP Client/HTTP Client mode
- Enclosure: DIN rail mounted, plastic ABS, UL94-V0, grey RAL 7035

#### Area of use

- Connecting Sentera devices to the SenteraWeb service database
- Gateway for application dedicated firmware and/or firmware updates via the SenteraWeb Service Database
- 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.)

# Supply voltage 24 VDC, Power over Modbus Imax 35 mA Output voltage for connecting slave devices Temperature -10-60 °C Ambient conditions Relative humidity 5-95 % 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		
Pin 5	/B	Modbus RTU communication, signal /B
Pin 6		
Pin 7	GND	Ground, supply voltage
Pin 8		
GND ****  /B ****  A *****  24 VDC *****	7 6 5	RJ45



#### Standards

• EMC directive 2014/30/EU

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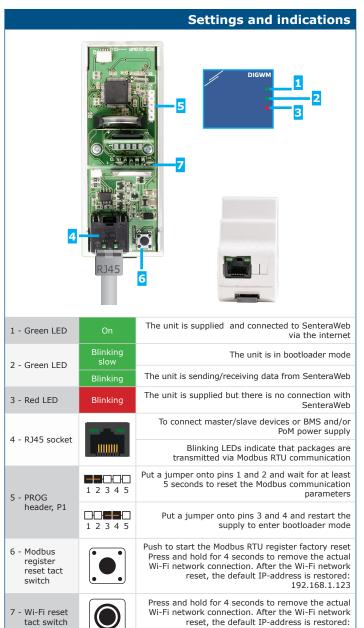
- -EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use EMC requirements Part 1: General requirements EN 55011:2016 Industrial, scientific and medical equipment Radio-frequency
- -EN 55011:2016 Industrial, scientific and medical equipment Radio-frequency disturbance characteristics - Limits and methods of measurement Amendment A1:2017 and A11:2020 to EN 55011:2016
- -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 Amendment AC:2015 to EN 50561-1:2013
- 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 60950-1:2006
- -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



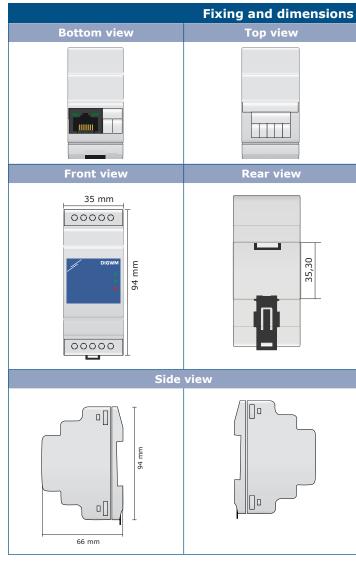
## DIGWM







	Global trade item numbers (GTIN)
Packaging	DIGWM
Unit	05401003017760
Вох	05401003503522



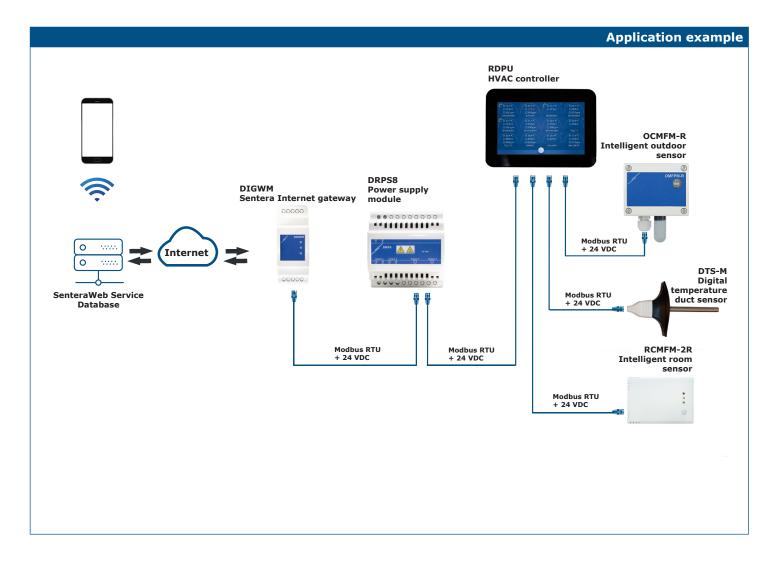






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