



# RDPUM

## Processing unit with touch screen

RDPU - Remote Domestic Processing Unit - is a universal programmable controller that requires a dedicated firmware for a specific application. The user interacts with the graphical user interface via a 5" multi-touch capacitive TFT-LCD display. Thanks to the built-in Modbus RTU communication, various HVAC sensors and / or fan speed controllers can be connected to this device via regular network cables with RJ45 connectors.

### Key features

- Modbus Master channel with five RJ45 sockets to connect up to 247 slave devices and/or PoM power supply
- Modbus Slave channel with one RJ45 socket to connect to a Master device or BMS and/or PoM power supply
- Connects to all Sentera devices with Modbus RTU
- Wall-mounted enclosure

### Article codes

Article code	Supply	Imax	Connection
RDPUM	24 VDC, PoM	100 mA	RJ45

### Technical specifications

Display size	5"		
Display type	Capacitive LCD-TFT		
Maximum power consumption	2,4 W		
Nominal or average power consumption in normal operation	1,8 W		
Ambient conditions	Temperature	0–50 °C	
	Rel. humidity	5–85 % rH (non-condensing)	
Protection standard	IP30 (according to EN 60529)		

### Wiring and connections

#### RJ45 socket (Power over Modbus)

Pin 1	24 VDC	Supply voltage
Pin 2		
Pin 3	A	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		



J1	Modbus RTU Slave channel to connect to a master device and/or Power supply
From J2 to J5	Modbus RTU Master channel to connect the slave device(s) and/or Power supply

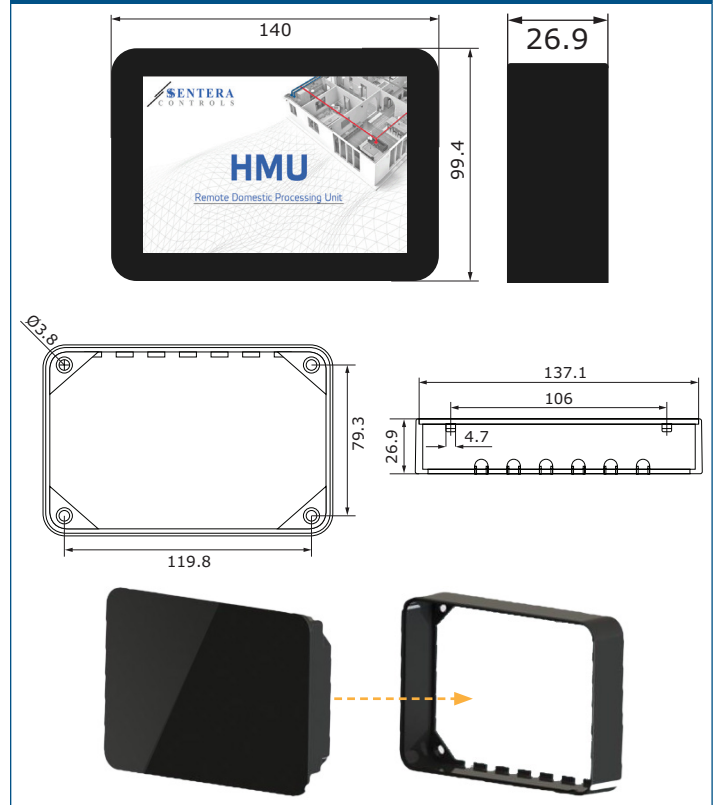
**Attention:** Make sure that supply voltages from different power sources do not come into contact with each other. Never connect cables in the RJ45 sockets with Power wires (pins 1,2,7 and 8), connected to different Power supplies. If the connected units have a different Power supply, only crimp the data wires (pins 3,4,5,6) in the RJ45 connectors. (See "Wiring and Connections").



### Area of use

- Suitable for residential and commercial buildings
- For indoor use only

### Fixing and dimensions





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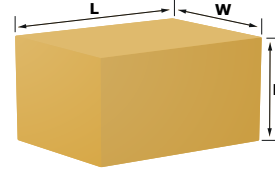
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## Standards



- Low Voltage Directive 2014/35/EC  
-EN 60529:1991 Degrees of protection provided by enclosures (IP Code) Amendment AC:1993 to EN 60529
- EMC directive 2014/30/EU:  
-EN 60730-1:2011 Automatic electrical controls for household and similar use - Part 1: General requirements  
-EN 61000-6-1:2007 Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments  
-EN 61000-6-3:2007 - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments Amendments A1:2011 and AC:2012 to EN 61000-6-3
- RoHS Directive 2011/65/EC

## Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
RDPUM	Unit (1 pc.)	160	120	50	0,191 kg	0,200 kg

## Global trade item numbers (GTIN)

Article code	Packaging (Unit)
RDPUM	05401003011225

## Wiring diagram

