

OUMAN RU43W 4.3" White label

The device features a 4.3-inch QVGA display, suitable for compact user interfaces and clear data visualization. Communication is handled via the Modbus RTU protocol over an RS485 interface, ensuring reliable and industry-grade data exchange.

An integrated temperature and humidity sensor enables environmental monitoring, with the option to connect an external sensor for extended measurement capabilities. The built-in wireless access point (Wi-Fi ready) allows for convenient configuration and remote access to the user interface.

User interface design is supported by a Windows-based Graphical User Interface (GUI) Editor, which also enables OTA firmware upgrades via the wireless access point. This functionality enhances maintainability and flexibility by allowing software updates without physical access to the device. GUI editor support creating for the new device with two different orientations (horizontal and vertical).



TECHNICAL INFORMATION	
Product code	OMA0746, OMA0753, OMA0754
Dimensions	125mm x 87mm x 20mm with wall bracket
Protection class	IP20
Power supply	12*-36 VDC or 24 VAC +/-15%
Max. power consumption	3W
Operating conditions	0 °C to 40 °C and 10% to 95% RH
Resolution	480x272 px
Inbuild sensors	Internal RH% and Temp + optional placement reservation for CO ₂ sensor.
4-pin RJ	RS485 or optional can be changed CAN chipset
2 Univeral Inputs	Input Examples: NTC10k, Pt/Ni1000, Ni1000LG, 0-10 V, 2-10 V, OC Pulse counter, PWM OC or 10 V, resistance value/raw
2 Univeral Inputs/Outputs	Input Examples: NTC10k, Pt/Ni1000, Ni1000LG, 0-10V, 2-10 V, OC Pulse counter, PWM OC or 10 V, resistance value/raw Output Examples: 0-10 V, 2-10 V, Pulse counter 250H z OC, 250Hz PWM
Accessories	External sensors Back cover for device mounting Back cover for wall mounting

Possibility to connect external sensors
 Wireless access point (Wi-Fi ready)
 Responsive, capacitive touch display
 Modbus RTU over RS485
 Pre-defined mode selection: Home, Away, Extra Time.
 • Extra time and several other example modes could be configured by GUI tool or Modbus command.

* Minimum 12 VDC voltage level in RU43W device input

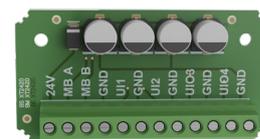
I/O card for additional connectors

I/O card (with screw connectors) of the room unit supports four external inputs: UI1, UI2, UIO3 and UIO4, which can be individually configured to support various input types. UIO3 and UIO4 can be also configured as outputs (e.g. 0-10 V, 2-10V out).

The default software and modbus registers support the following:

- Resistive sensors e.g. NTC10K, PT1000, Ni1000LG, Potentiometer, Raw Ohm value
- Analog sensors e.g. 0 – 10V, 2 – 10V
- Digital ON/OFF signals
- Pulse counters e.g. water meters, energy meters
- Open Collector (OC) maximum I/O controlling current to devices is 10mA
- Built-in temperature sensor NTC type, measuring range 0...50°C, accuracy ±0.5°C without Wifi and with Wifi on ±1.0°C

I/O card with screw connectors



Optional:
I/O card with spring loaded (plug-in) connectors

