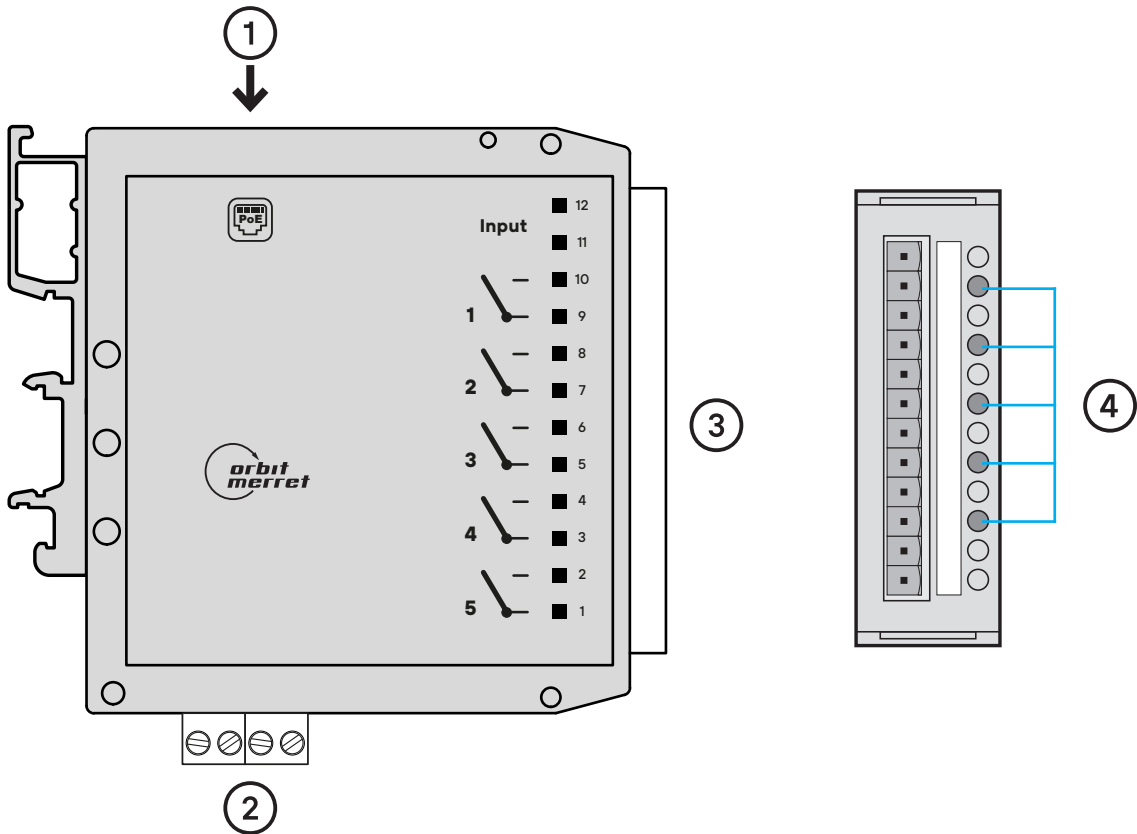# 1 General description

OMT 1550

- On-line control of digital outputs
- Switching using rules at a given time
- Response to user inputs
- Actions recorderd into database and internal memory
- Settings from PC via web browser
- Powered over Ethernet (PoE)
- Easy installation and first start-up

Input

① Connector for data cable with PoE
② Input signal connector (optional)
③ Connectors
④ LED

LED INDICATION

LED	Status	Description
○	*Off*	relay open
●	*On*	relay closed

| ⚡ **DANGER** ⚠	⚠ **VARNING** ⚠
RISK OF ELECTRIC SHOCK - Before servicing disconnect all power supplies and other supply and input lines.	**EQUIPMENT OPERATION HAZARD** - Do not use this product in a safety critical system. - Do not disassemble, repair or modify the product. - Do not use the product outside the recommended operating conditions.
Failure to follow this instruction may result in death, or serious injury.	Failure to follow these instructions could result in death, serious injury or damage to the equipment.

Electrical equipment may be installed, operated, and maintained only by qualified personnel.
Company ORBIT MERRET accepts no liability for any consequences arising from the use of this material..
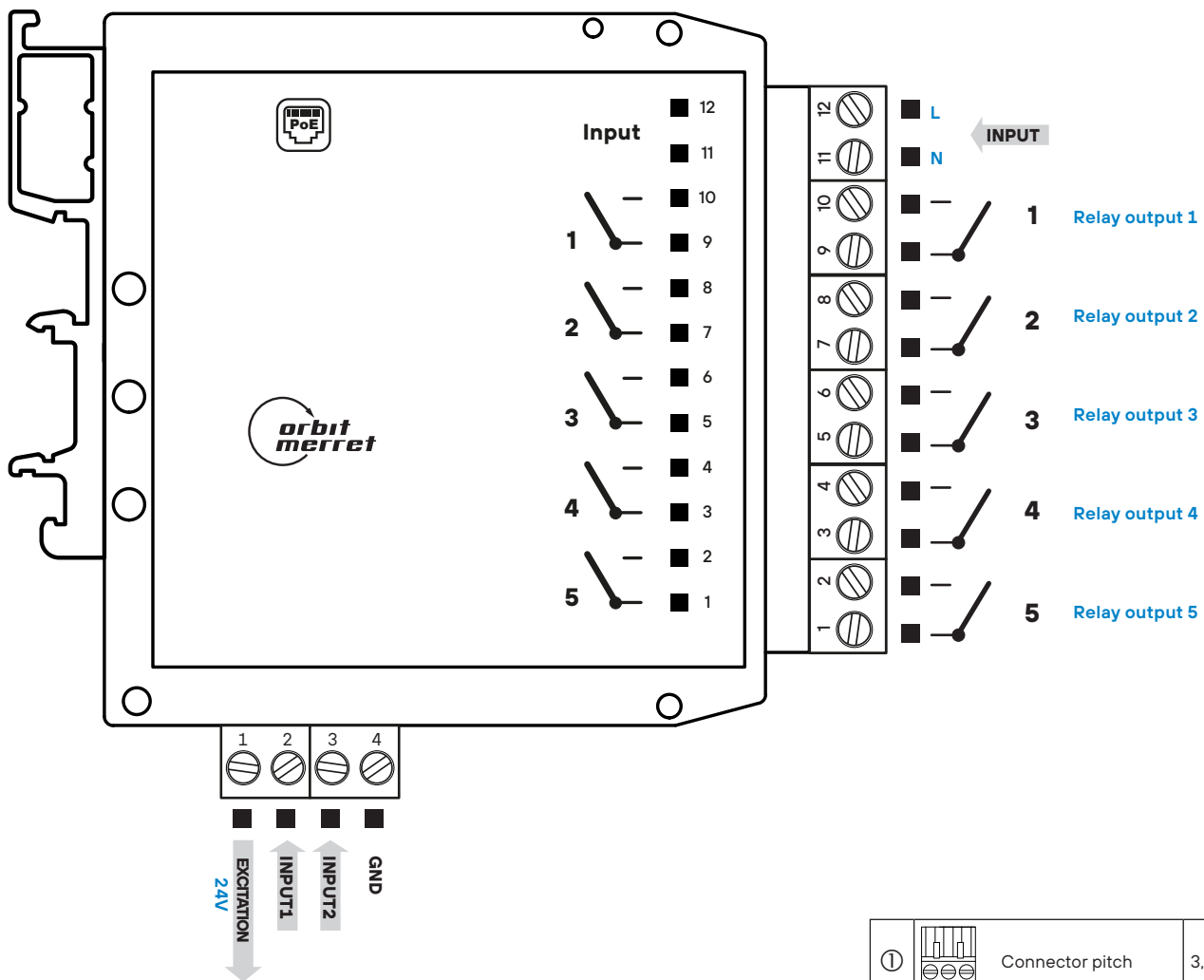
①		Connector pitch	3,5 mm
②	mm / in		mm / in. 6 / 0.24
	mm² / AWG		0,05...1,5 / 30...14
③		1,5 Nm / 13.2 lb-in	Ø 2,5 mm / 0.1 in

Power supply

OMT 1550 is powered by Power over Ethernet (PoE) technology according to the 802.3af specification. OMT 1550 does not support PoE Auto Recovery. It is necessary to deactivate this function on the port of the network device (switch, router, etc.) to which OMT 1550 is connected (provided the conenctred device supports this functionality and it is enanbled)

Start

OMT 1550 is turned on by connecting the data cable with PoE. If OMT 1550 - XXXXXX has free access to public NTP servers for time synchroni-zation, it retrieves the current time, logs into the IoT hub and starts periodic measurements and sending out data.

4 Device settings

4.1 Access into configuration

Access via WiFi access point (AP)

In its default configuration, OMT 1550 creates its own WiFi network to which you can connect and through which OMT 1550 can be configured. The name of the network is the device name i.e.: OMT1550 and the password is in the format OMT * 123456 (refer to the device label). Connect the superior control device to WiFi AP through a procedure that is standard for this device. Then use a web browser to go to the configuration page at 192.168.4.1.

Access via Ethernet

OMT 1550 will be assigned an IP address according to your network settings. You need to find out this IP address by using network scanning tools. Alternatively ask your IT department for assistance. Using a web browser on a device that is connected to the same network, go to the OMT 1550 configuration page.

4.2 Time setting

To ensure its proper functionality, OMT 1550 needs to have the current time set. By default, OMT 1550 automatically synchronizes its time using public NTP servers. In case of their unavailability, it is necessary to set the address of the available NTP server manually, or to set the time manually. To set the address of an available NTP server, it is necessary to open the OMT 1550 configuration according to the procedure described in section 3.1. In the **NTP server setting** enter the IP address of the NTP server in the format XXX.XXX.XXX.XXX, eg: 192.168.0.1 and then confirm it by pressing the **Set NTP server** button. If OMT 1550 does not have access to the NTP server, the current time can be set manually by pressing the **Set time** button. This procedure will adopt the time information from the higher-level control device, so it is necessary to have this device set to correct current time.

NTP server setting

IP address of NTP server
XXXX.XXXX.XXXX.XXXX

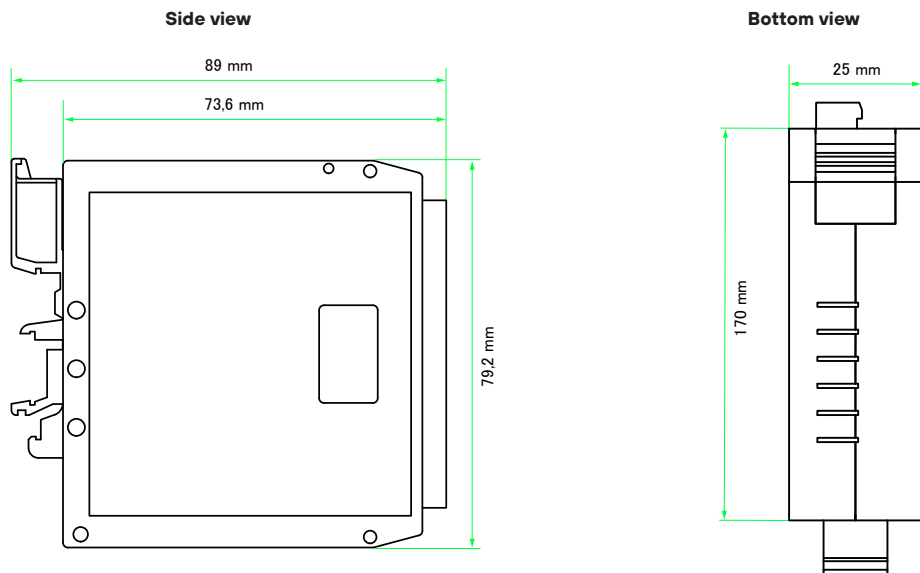ON DEVICE - NTP SERVER

Set NTP server   Set time

4.3 Setting of input and of switching parameters

All switching and input parameter settings are done using the associated web application.

5   Dimensions and installation

Dimensions

Side view

89 mm

73,6 mm

79,2 mm

Bottom view

25 mm

170 mm

Mounting instructions

OMT 1550 is to be mounted on a standard DIN rail TS35.

> **i** As OMT 1550 generates some limited heat, it is advisable to alow for air flow around its casing and not to mount it close to devices sensitive to ambient heat.

6   Technical data

CONNECTION

Ethernet	10/100 Mbps
WiFI	AP/STA 2,4Ghz internal antenna
Bluetooth	BLE4.1 2,4Ghz internal antenna

POWER SUPPLY

Power over Ethernet (PoE)	44–57V, 802.3af class 0, consumption 2-5 W

INPUTS

1x digital input	12...230V/0,4mA, isolated 2,5 kV

INPUTS (OPTIONAL)

2x digital input	5...24V, isolated 2,5 kV

OUTPUT

5x relay	Normally open (SPST) 250V/5A

MECHANICAL PROPERTIES

Material	PA66 UL 94-0, blue
Dimensions	80 x 25 x 85 (w x h x d)
Mounting	DIN rail 35mm

OPERATING CONDITIONS

Settling time	up to 3 minutes after power-on
Operating temperature	-30°...85°C
Storage temperature	-30°...80°C
Protection class	IP30
El. safety	EN 61010-1, A2

7   Order code

OMT 1550			- ☐ - ☐☐
Digital inputs	no	0	
	yes	1	
Specification	not specified by default		0 0

orbit merret

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