

SMART COMPACT IO (SCIOCENT)

Central Unit with integrated web server



The SCIOCENT is a very compact Central Unit with an embedded web server for cloud interface and remote control. Onboard the unit there are several inputs and outputs to control valves and machines of different kinds: mixing valves, circulating pumps, heat pumps, gas boilers, mechanical ventilation, dehumidifiers etc.

There are six relays connected to the "on/off" outputs as well as two "0-10V" outputs. Then there are three temperature sensor inputs.

There is a standard Modbus RTU(RS485) port that is used to connect room sensors and thermostats of the controlled zones via a single bus cable.

The SCIOCENT module autonomously reads the temperatures and humidity data from the connected sensors and thermostats and controls the outputs which operate the valves, the pumps and the machines according to the pre-defined standard logics.

The SCIOCENT can handle up to 8 rooms (sensors or thermostats) and can use additional Input/Output modules, like the CIOT, if needed.

This flexibility combined with the powerful cloud architecture makes the Termogea system very modular and scalable: from small apartments to the very large buildings with many offices or homes.

There is also a network connection via Ethernet port which allows the SCIOCENT to communicate to the Termogea Cloud and remote control via Termogea smartphone app.

Besides the ethernet port there is a Wi-Fi option too.

For maintenance purposes and remote assistance, every single input and output is accessible via the Cloud from a remote office or from a mobile device (smartphone/tablet).

The SCIOCENT can be mounted on a DIN rail bar.

TECHNICAL SPECIFICATIONS

Product Code	SCIOCENT
Power supply	24V DC or 24V AC
N° Relays	6
Consumption	110 mA
Analog output	2 (0V-10V)
N° Temperature sensor input (PT1000)	3
Ethernet	(10BaseT/100BaseT)
Wireless connection	2.4GHz IEEE 802.11b/g/n wireless LAN, on-board antenna
Relay functional limits	NO/NC, 250V AC/5A or 24V DC/5A
Environmental functional limits	Temperature -20...50°C
Storage	Temperature -20...50°C
Mounting	DIN rail
Communication protocol	Modbus RTU
Protection	IP20
Dimensions	4 DIN modules
Dimensions	72 x 95 x 58mm