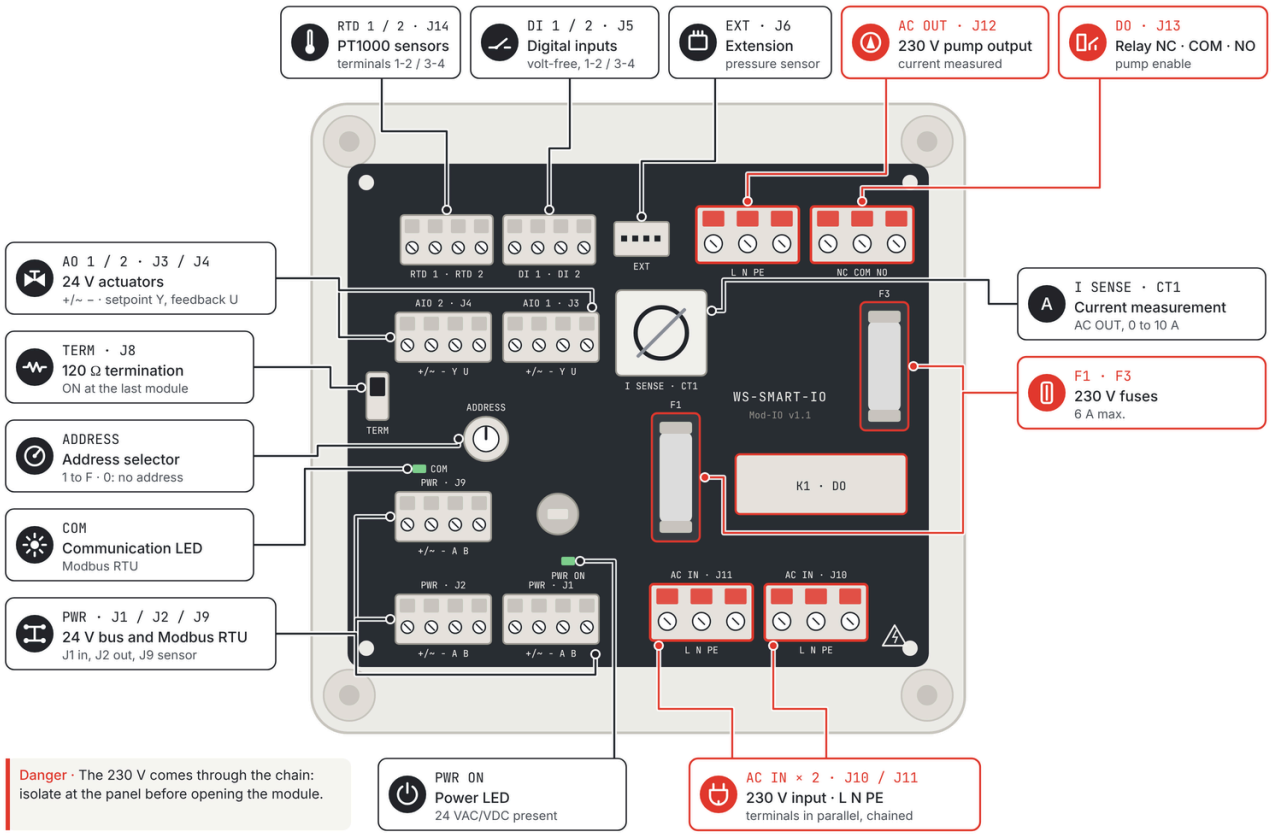
WS-SMART-IO

Remote input/output module for air handling units

Remote input/output module, mounted as close as possible to the installation. On an air handling unit: two temperature sensors, two dry contacts, two actuators, one switched 230 V output with current measurement. Modules are chained from box to box, up to fifteen on one bus. It is also the I/O building block of the WS-SMART-HG controller.



AVAILABILITY

Pre-production series: EU declaration of conformity of 5 Oct 2026. Availability and lead time confirmed in the quotation.

PRICE

On request. Net prices are provided with the quotation, once your trade account has been approved on wellset.ch.

DOCUMENTATION

Documents and videos to download at wellset.ch/en/produits/ws-smart-io.

SPECIFICATIONS

Temperature inputs	2 PT1000 sensors (RTD 1, RTD 2),−25 to +50 °C, ±0.5 °C
Digital inputs	2 potential-free inputs (DI 1, DI 2), dry contacts
Actuator channels	2 channels: 0–10 V setpoint, 0–10 V position feedback, 24 V supply
Pump output	AC OUT: switched 230 V, with current measurement and protection
Relay output	Changeover contact NC – COM – NO on the DO connector
Current measurement	0 to 10 A on the AC IN / AC OUT circuit, detected from 0.2 A
230 V input	AC IN: distribution daisy-chained from module to module, 250 V AC, 10 A max
Power supply	24 V AC or DC (19.2 to 28.8 V), 70 mA, daisy-chained with the bus
Communication	Modbus RTU, 19 200 baud, even parity; 15 modules and 50 m of bus at most
Addressing	16-position rotary selector, 120 Ω termination by jumper
Expansion	EXT connector: differential pressure sensor ±2490 Pa
Diagnostics	One LED per channel: PWR, COM, DI 1–2, RTD 1–2, I SENSE, AIO 1–2
Protection	Two fuses on the AC circuits, 6 A max per the board marking
Isolation	AC circuit isolated, 3000 V AC for 1 minute
Connection	Pluggable spring-cage terminals:0.5 to 1.5 mm² for signals and bus, 0.75 to 2.5 mm² for the AC circuits
Mounting	Legrand Ensto Cubo wall enclosure, 125 × 125 × 75 mm
Ingress protection	IP66
Dimensions	Board 113.8 × 98.5 × 34.5 mm
Environment	−25 to +50 °C, 0 to 95 % RH
Board	Mod-IO v1.1

DOWNLOADS

- WS-SMART-HG bus topology for the electrician
- WS-SMART-HG wiring diagram, one sheet per WS-SMART-IO module

wellset.ch/en/produits/ws-smart-io

> This data sheet describes the product in general terms. Installation is a job for a qualified professional and must comply with the applicable rules (NIBT / SN 411000); the wiring diagram and the quick start guide are authoritative for detailed wiring.