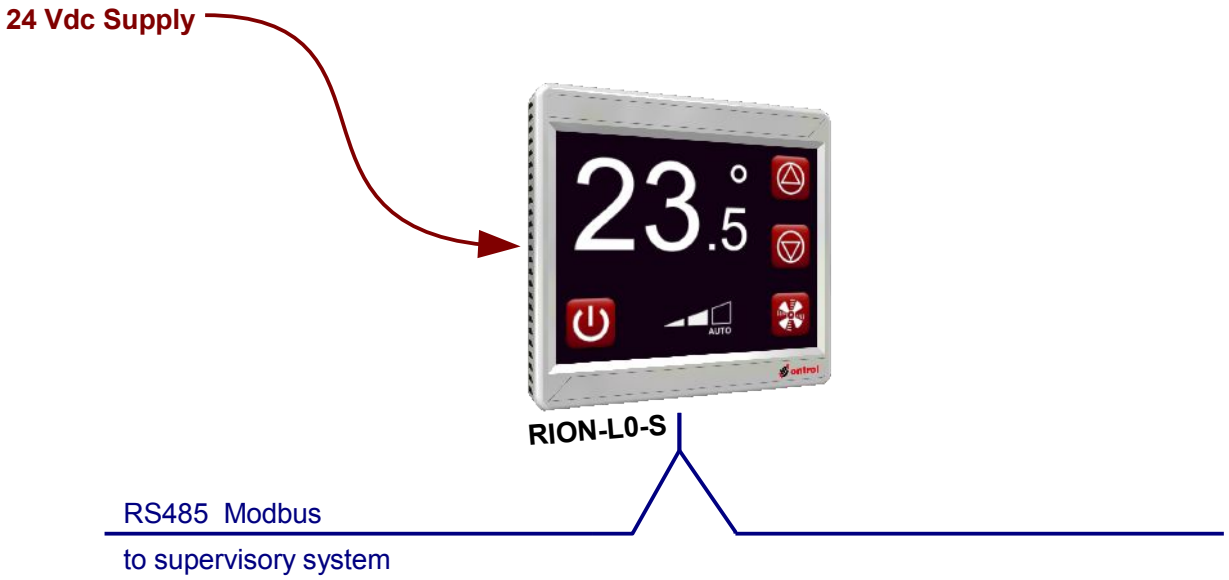
R-ION

TOPOLOGIES DOCUMENT

ontrol

R-ION

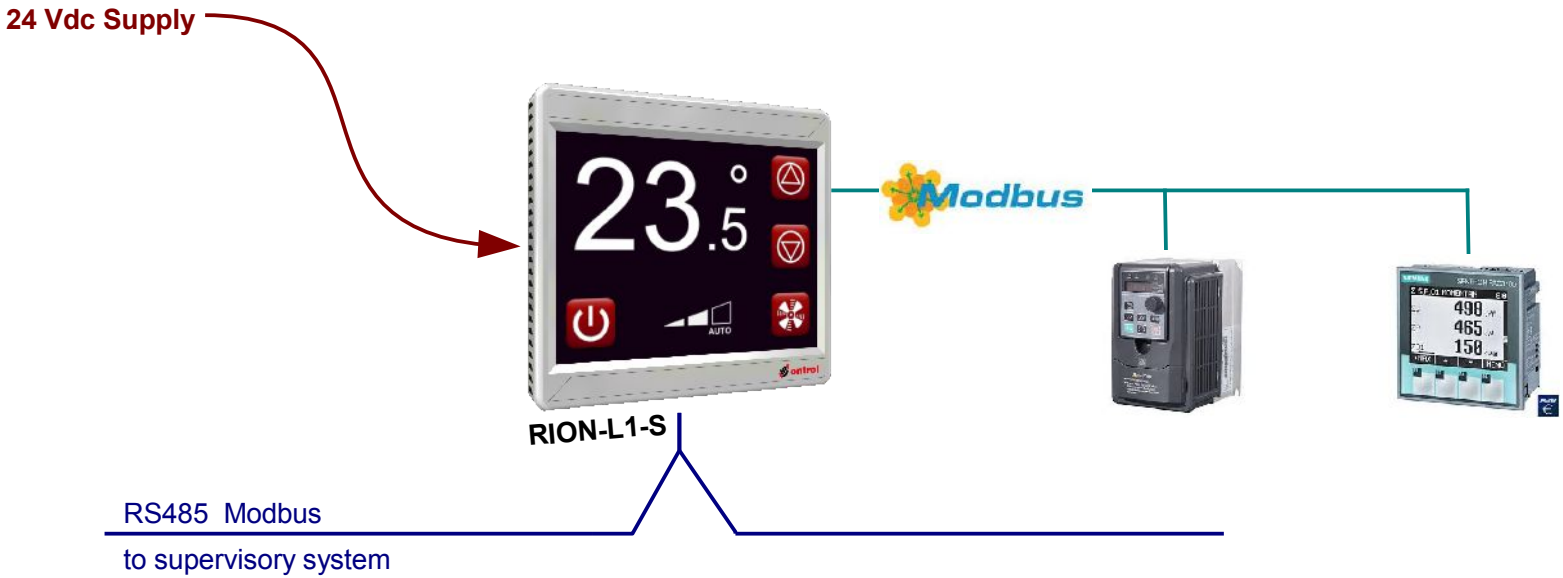
Basic user-interface only



(Built-in temperature sensor standard on all versions)

R-ION

Auxillary modbus (-L1 versions)



(Built-in temperature sensor standard on all versions)

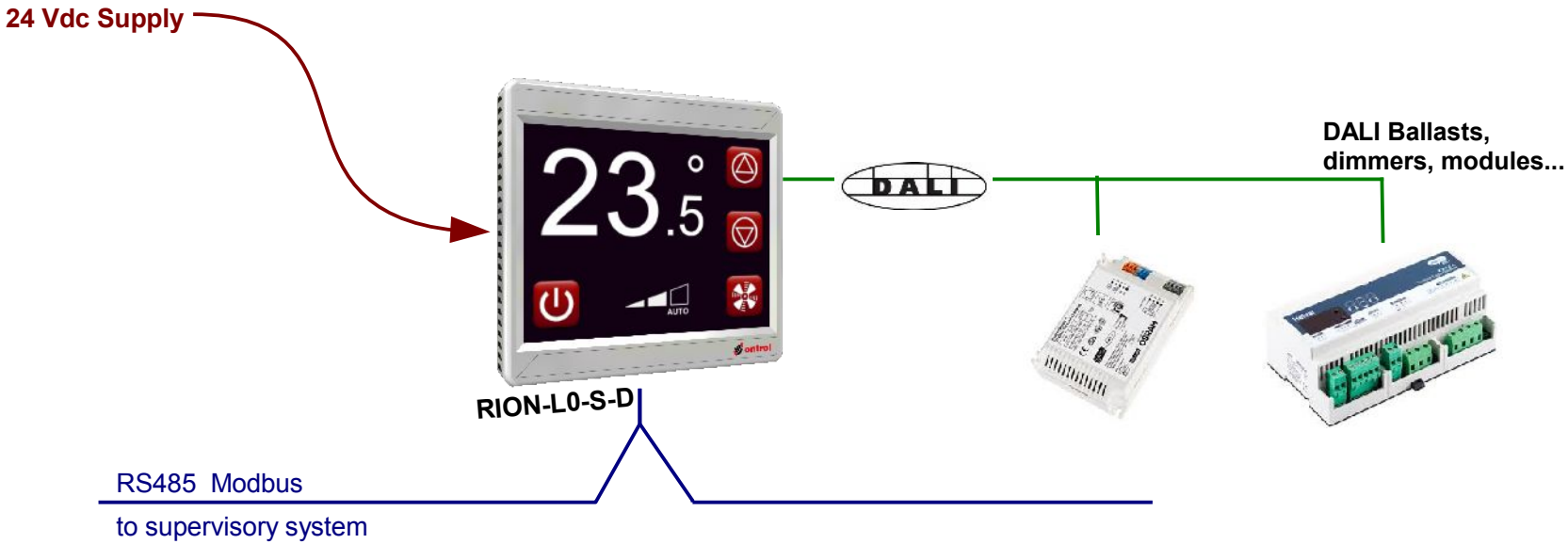
R-ION

Simple VAV Control with Belimo MP-Bus

(Built-in temperature sensor standard on all versions)

R-ION

Simple Lighting control with Dali



- Built-in temperature sensor standard on all versions
- DALI feature expected Sep.2014

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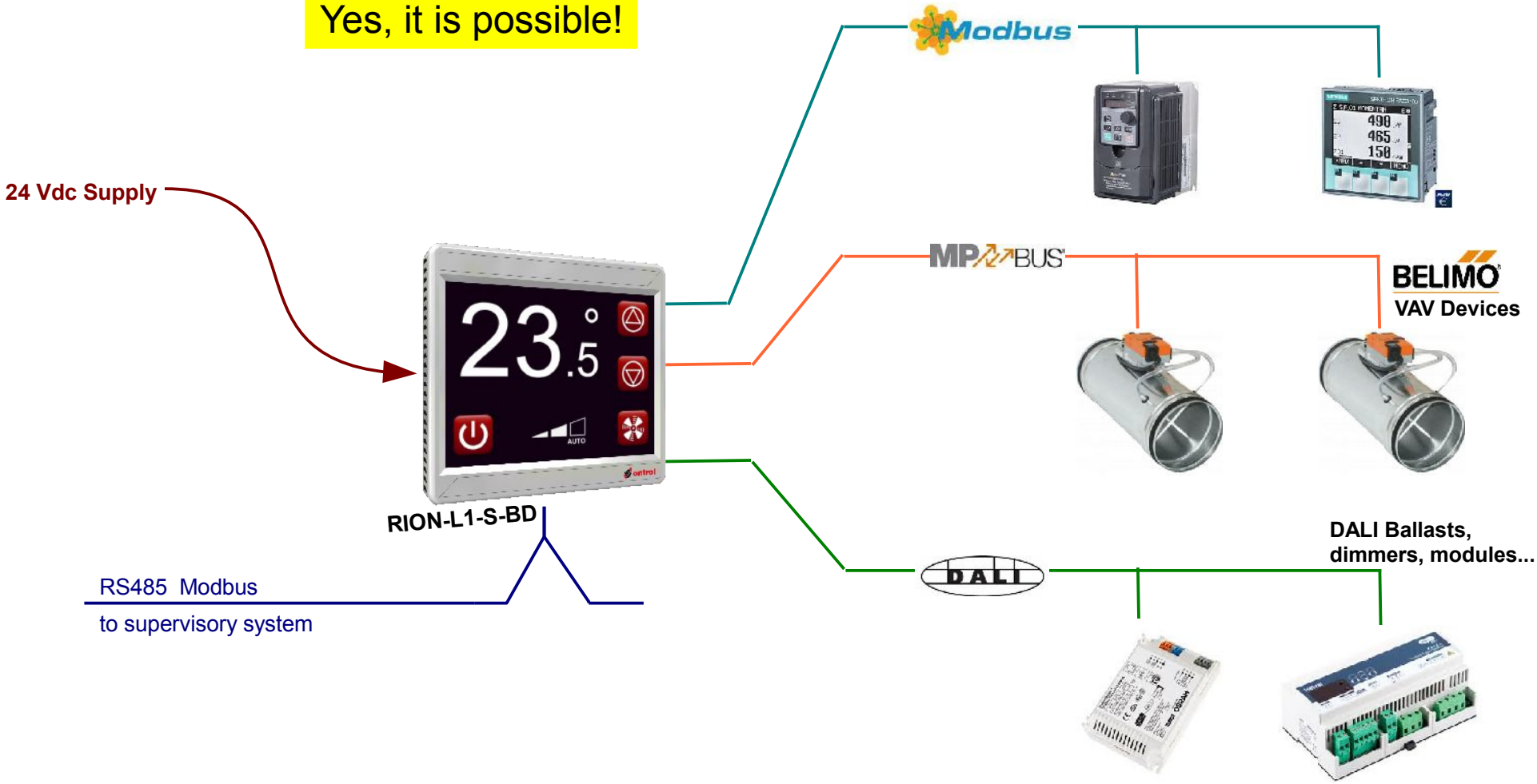
Modbus/ Mp-Bus / Dali

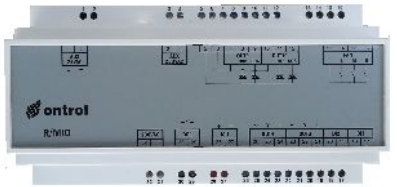
Yes, it is possible!

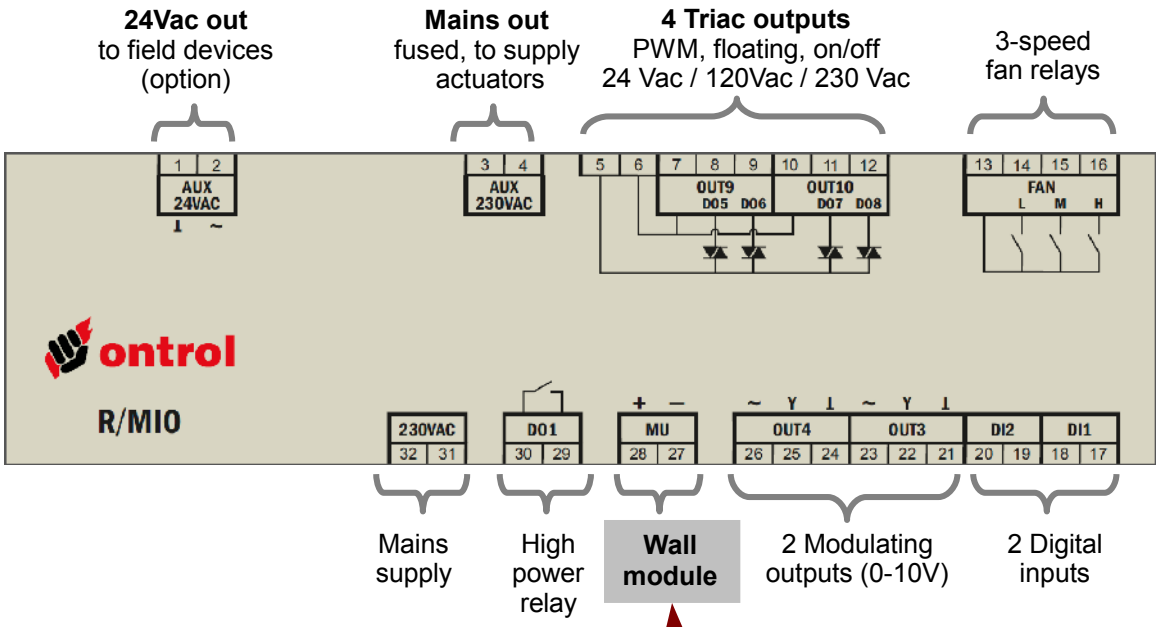


- Integral temperature sensor standard on all versions
- DALI feature expected first quarter 2015

R-ION

Basic terminal unit control with physical I/O - Option 1: R/MIO





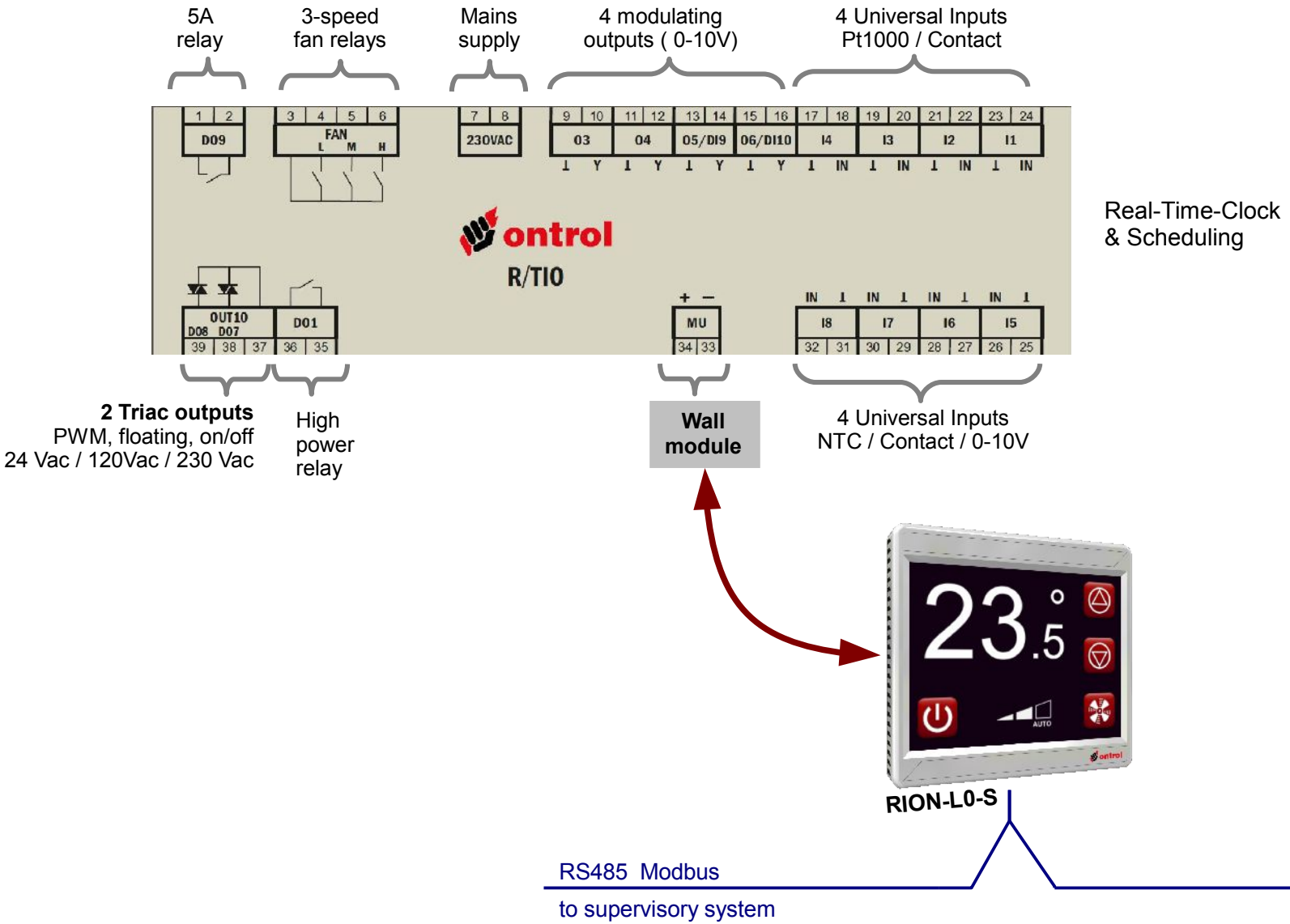
RION-L0-S

RS485 Modbus

to supervisory system

R-ION

Basic terminal unit control with physical I/O - Option 2: R/TIO



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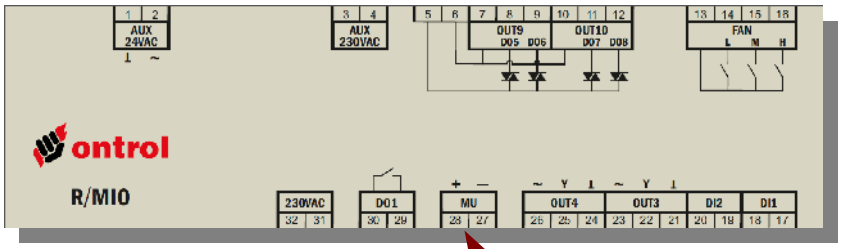
Physical I/O + MpBus + DALI

comms options still available!

(except second modbus)



DALI Ballasts, dimmers, modules...

RION-L0-S-BD

DALI

MP BUS

BELIMO

VAV Devices

RS485 Modbus

to supervisory system

- Integral temperature sensor standard on all versions
- DALI feature expected Sep.2014

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WIFI option available on topologies

(replaces RS485 supervisory comms)

- Integral temperature sensor standard on all versions
- DALI feature expected first quarter 2015
- WIFI feature under final testing
- WIFI currently supports Sedona Sox protocol only

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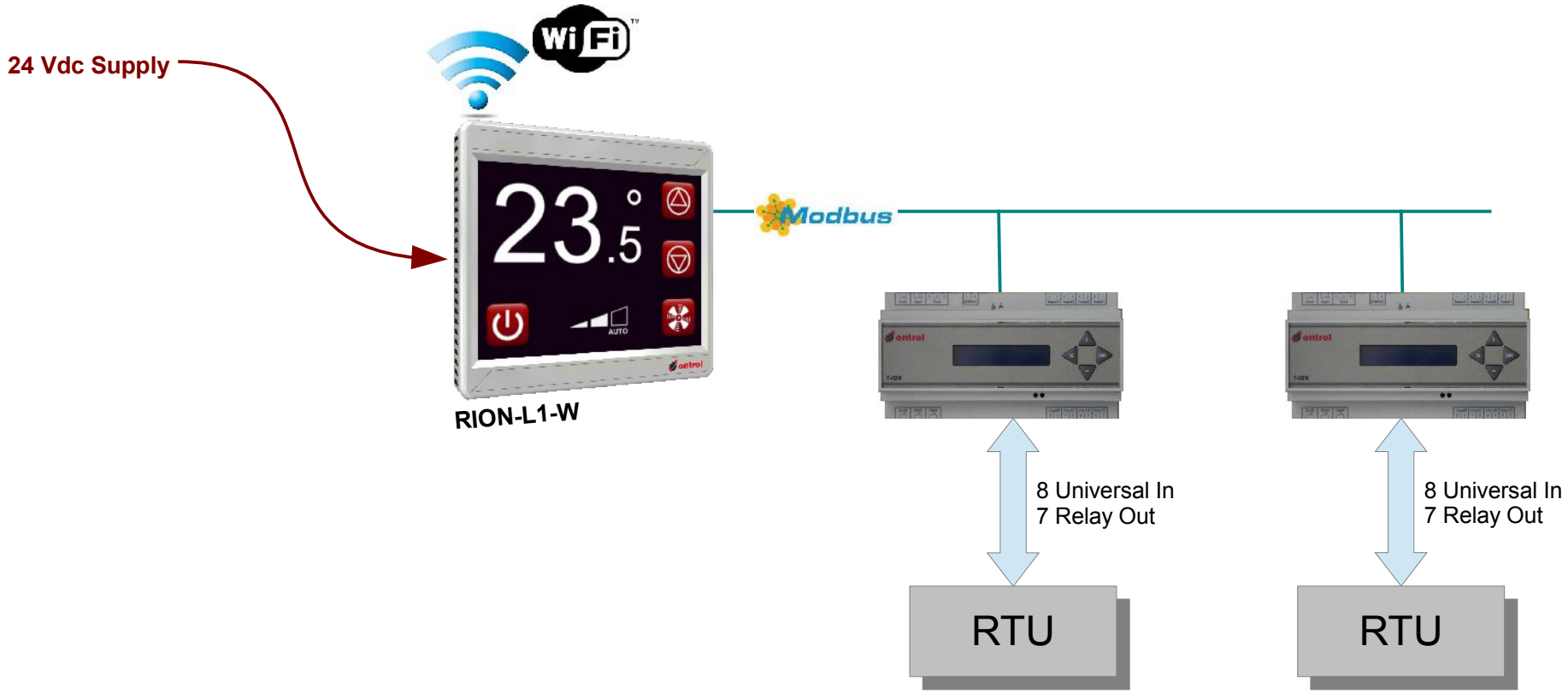
Small building heat-pump control solution



R-ION
Versions

RION – L0 – S - XX

Supply & remote IO option
L0: 24 Vdc (or with aux. I/O module)
L1: 24 Vac/dc + aux. modbus port
H1: 230Vac + aux. modbus port
U1: 120 Vac + aux. modbus port

Supervisory system comms
S: RS485
W: WIFI (802.11b)

Additional comms
D: Dali bus
B: Belimo MP-Bus

	L0-S	L0-W	L1-S	L1-W	L0-S-D	L0-W-D	L1-S-D	L1-W-D	L0-S-B	L0-W-B	L1-S-B	L1-W-B	L0-S-BD	L0-W-BD	L1-S-BD	L1-W-BD
WIFI		✓		✓		✓		✓		✓		✓		✓		✓
Port 1 Modbus Master/Slave	✓		✓		✓		✓		✓		✓		✓		✓	
Port 2 Modbus Master			✓	✓			✓	✓			✓	✓			✓	✓
Port 3 Dali					✓	✓	✓	✓					✓	✓	✓	✓
Port 4 Belimo MP-Bus									✓	✓	✓	✓	✓	✓	✓	✓
Supply 24Vdc	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Supply 24V ac			✓	✓			✓	✓			✓	✓			✓	✓
IO module connection	✓	✓			✓	✓			✓	✓			✓	✓		