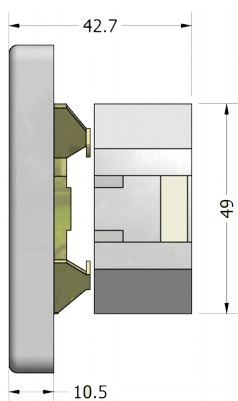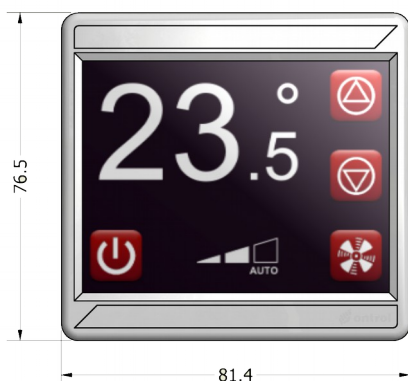- Communicatiing intelligent room controller
- 3.5" resistive color touch-screen
- Freely programmable
- Fully customizable graphics
- Powered by Sedona Framework
- RS485 Modbus RTU comms
- WIFI option
- Belimo MP-Bus option
- Dali (Digital Addressable Lighting Interface) option
- Low profile, only 10.5 mm thick
- Optional Input/output modules optimized for terminal units (e.g. Fan-coil, VAV, RTU...)

Dimensions (mm)

Specifications

Operating voltage and power consumption	24 VDC / 2,5 VA (Typically from R/MIO module)
Screen	3.5" Resistive touch-screen 320x240 pixel resolutiom 65K colors
Operating Temperature Storage Temperature Relative Humidity	5..50 ºC -25..+75 ºC %5...95 rh, non-condensing
Weight Dimensions Installation	100 gr (150 gr with packaging) 76.5 x 81.4 x 42.7 (10.5) mm min.45 mm deep wall-box
Protection	IP30 according to EN 60529
Connections	Screw terminals, max 1 mm² (26-16 AWG)
Communication Ports (depending on version)	Main RS485 (Modbus RTU master or slave) Auxiliary RS485 (Modbus RTU master) Belimo MP-Bus (Master) DALI (Master)
Wireless communication (depending on version)	Standard WIFI 802.11b

Versions

	L0-S-D	L0-S-BD	L1-S-D	L1-S-BD	L0-W-D	L0-W-BD	L1-W-D	L1-W-BD
	Port 1 Modbus Slave/Master				Wifi			
	Special IO module*		**Port 2** Modbus Master		Special IO module*		**Port 2** Modbus Master	
Port 3 Dali	✓	✓	✓	✓	✓	✓	✓	✓
Port 4 Belimo MP-Bus	-	✓	-	✓	-	✓	-	✓
Supply	24V DC only**		24V AC/DC		24V DC only**		24V AC/DC	

* Ontrol's special input/output module like R/MIO, R/TIO etc...

** Power via Ontrol's special input/output module

R-ION System Description

General	R-ION series products are programmable room controllers ideal for managing a wide range of individual building products such as fan-coil units and VAV boxes
Display / User Interface	3.5" resistive color touch-screen. 65K colors. The display pages and user interface is freely customizable by a systems integrator. Multiple pages can be configured with various widgets for displaying / modifying values.
Communications	R-ION controllers support various industry standard protocols simultaneously. The main supevisorty communication is serial RS485 or wireless IP depending on basic version: - WIFI versions support Sox protocol, and BacNET IP. - Serial verisons support Modbus RTU in either master or slave configuration. Optionally, one or more of the following communication ports may be available - Second modbus RTU (master only) - Belimo MP-Bus - DALI (Digital Addressable Lighting Interface)
Powered by SEDONA Framework	The Sedona Framework™ provides a complete software platform for developing, deploying, integrating, and managing pervasive device applications at the lowest level. It brings the power of programmable control and the Internet down to extremely inexpensive devices. The Sedona Framework distributes decision making control and manageability to any device and brings intelligence and connectivity to the network edge and back.