2. ROOM CONTROLLERS

2.1 ROOM CONTROLLER *evolu·ion* , FAN COIL AND AIR HANDLING   TH

The new room regulator *evolu·ion* is well-suited for thermoregulation application. Thanks to a lot of I/O the unit is fit for driving 2-pipe, 2-pipe + electric heater, 4-pipe, 4-pipe + electric heater plants with 3-speed motor or EC motor. The outputs for valves can be on/off or modulating type. The large backlit display allows user to easily see temperatures, humidity, parameters setting, time bands and the state of unit. The unit implements also a RS485 line with Modbus slave RTU protocol for external communication and can be built-in wall mounted with a 3-module box.

TECHNICAL DATA

Power supply:	110...230 Vac ± 10%, 50/60 Hz
Input:	2 contacts free of potential
	2 or 3 NTC10-02 sensors
	USB port for parameters setting and software update
Output:	3 analog outputs 0..10V (RL > 10Kohm) according to model
	5 relays SPST 250Vac, 3A (AC1) according to model
Temperature range:	0...+50°C
Power cons.:	max 1.3 W
Visualization:	display with backlight
Communication:	Modbus RTU (slave)
Range of temperature reading:	0...+80°C
Installation:	3 modules built-in box
Protection:	IP30, class II
Size:	128 x 80 x 55,5 mm

TH-   X X X S X 1

Version:
1 digital output + 3 analog outputs + 3 analog inputs	0
2 digital outputs + 2 analog outputs + 3 analog inputs	1
3 digital outputs + 1 analog output + 3 analog inputs	2
3 digital outputs + 2 analog outputs + 2 analog inputs	3
5 digital outputs + 0 analog output + 3 analog inputs	4

Communication:
Without communication	S
Modbus	M
Bacnet (next coming)	B

Clock:
Without clock	S
With clock	C

Internal sensor:
Temperature	T
Temperature + humidity	H

Connector:
Plug-in connectors