

RDT900: Communicative controller for universal use

How energy efficiency is improved

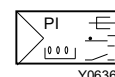
Maximum flexibility in adapting to even the most complex systems, ensuring effective control with a focus on energy efficiency. Communication capabilities via an open protocol allow integration with a supervision system or other automation-level units, enabling data exchange and efficient plant operation.

Field of application

Universal use in ventilation, air-conditioning and heating systems

Features

- Easy to operate with illuminated LCD 128x64 pixel and buttons
- Application download to the controller via USB port
- Configuration using display or PC tool
- Variety of communication ports and supported protocols (BACnet® MS/TP or IP, Modbus RTU or TCP/IP)*
- Web-server function
- Standard size 8 DIN modules



Y06366

Type	I/O	AI	DI	UI	AO	DO	Display	Web Server
RDT 921 F901	21	6	5	–	3	7	yes	yes
RDT 940 F901	40	10	13	–	6	11	yes	yes
RDT 940 F902	40	10	13	–	6	11	yes	yes
Power supply	24 V~, 50...60 Hz 24 V=, +65%, -15%			Operating temperature		-10...55 °C		
Dissipated power	Approx. 20 VA Approx 12 W			Storage temperature.		-25...70 °C		
Output				Humidity for use		10...90% rel. humidity without condensation		
Analog outputs	0...10 V= (some configurable as PWM or 4...20 mA)			Dimensions		142 x 128 x 60 mm		
Digital outputs	250 V~/=, 3 A			Type of protection		IP 20 overall IP 40 for the front		
Input				Connections		Screw in removable terminal board		
Digital inputs	24V~/=, 50...60 Hz optoisolated			Environmental standards		Rohs 2011/65/CE WEEE 20012/19/EU Reach (CE) 1907/2006		
Analog inputs	Ni1000 / Pt1000; 0/5...10 V – 0/4...20 mA			EMC standards		EN 60730-1 IEC 60730-1		
Comm. ports / protocol				Overvoltage category		III		
1 RS485	Modbus RTU slave							
1 RS485	BACnet® MS/TP							
1 Ethernet*	Modbus TCP/IP BACnet® IP Webserver							
1 CAN	CANbus for extension							
1 USB	Service port							

*For RDT9xxF901 controllers, BACnet® IP or BACnet® MS/TP communication can be enabled as an alternative to the Web Server function. However, the Modbus TCP/IP protocol can always be activated on the Ethernet port, regardless of other settings.

For RDT9xxF902 controllers, BACnet® IP or BACnet® MS/TP communication and the Web Server function can be enabled simultaneously.

On both RDT9xxF901 and RDT9xxF902 controllers, BACnet® IP and BACnet® MS/TP communication cannot be enabled at the same time.