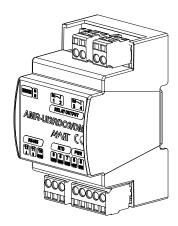


# AMR-UI2RDO2/DM

Programmable controller

- 2× relay output
- 2× RTD input for resistive temperature measurement
- 1× RS485 with galvanic isolation
- Power supply 24 V DC



#### **TECHNICAL DATA**

RTD inputs	2×
	Dry contact / Ni1000 / Pt1000
Input type Accuracy 1, 2)	,
– Ni1000 (6180 ppm/°C)	±0.5°C
– Ni1000 (5000 ppm/°C)	±0.6°C
– Pt1000 (3850 ppm/°C)	±0.8 °C
$R_{min}$ for log. $0/R_{max}$ for log. 1	> 1320 Ω/< 1080 Ω
Galvanic isolation	No
Outputs	2×
Output type	Switching relay contact
Galvanic isolation	Yes
Nominal voltage	250 V AC/30 V DC
current	3 A (resistive load)
Max. current	5 A
Max. total current	6 A
Contacts lifetime	Without load > 10 <sup>7</sup> cycles
	With nominal load > 10 <sup>5</sup> cycles
Communication	1× RS485
Galvanic isolation	Yes <sup>3</sup> )
Number of stations on segment RS485	256
Power supply	10 V DC to 30 V DC
Power consumption	37.5 mA <sup>4</sup> )
Others	
Connection points	Cage clamps WAGO231
Ingress protection rate	IP10
Mounting	On DIN rail
Operating temperatures range	0 °C to 50 °C
Storage temperatures range	0 °C to 50 °C
Weight	0.11 kg ±5 %
Dimensions (w × h × d)	(54 × 99 × 63) mm
Programming	DetStudio / EsiDet

- 1) Valid for ambient temperature 25 °C. The accuracy depends on measured value and it does not contain the stand-alone sensor accuracy.
- <sup>2</sup>) Due to electromagnetic disturbance, RTD inputs accuracy can be temporarily lower than the values presented in the table during the disturbances.
- 3) Insulation strength 500 V AC/1 minute; galvanic isolation must not be used for safe and unsafe parts separation.
- <sup>4</sup>) Without connected inputs and outputs.

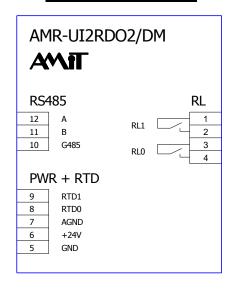
#### ORDERING INFORMATION

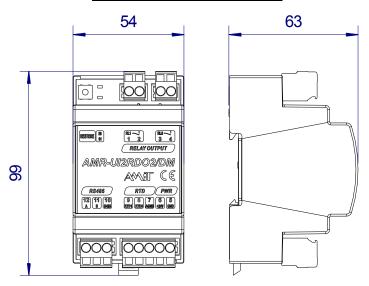
**AMR-UI2RDO2/DM** Programmable controller with connectors



## **DRAWING SYMBOL**

## **MECHANICAL DRAWING**





## **TERMINALS DESCRIPTION**

Terminal	Signal	Description	
1	RL1	Relay 1 contact	
2	RL1	Relay 1 contact	
3	RL0	Relay 0 contact	
4	RL0	Relay 0 contact	
5	GND	Power supply, ground	
6	+24V	Power supply, 24 V DC	
7	AGND	Common ground of RTS inputs	
8	RTD0	RTD input 0	
9	RTD1	RTD input 1	
10	G485	RS485, ground	
11	В	RS485, signal B	
12	Α	RS485, signal A	

## **LEDS DESCRIPTION**

LED	Light	Description	
S0	Flashing 0.1 s, for 1 s	.1 s, for 1 s Reset passage indication.	
	Flashing 0.2 s	Loader is launched.	
	Flashing 1 s	Application is launched.	
	Irregular flashing	Error is indicated.	
S1		Reserved for future use.	

## **BUTTON FUNCTION**

Press length	Action
> 1 s, but < 10 s – after turning on	Loader is launched with original communication parameters.
> 3 s, but < 10 s - during application run	Loader is launched with original communication parameters.
> 15 s	Loader is launched with the communicating parameters: address 1, 38400 bps, even parity. The original application is launched after each next start.





Revision: IV/17 amr-ui2rdo2dm\_d\_en\_101

# **AMR-UI2RDO2/DM**

Programmable controller

#### **COMMUNICATION PARAMETERS SETTING**

Loader is implemented by manufacturer in the device, with the communication parameters – address 1, rate 38400 bps, even parity. The communication parameters can be changed through DetStudio development environment or utility ARMconfig from PC.

Creation of own, user application is possible only through DetStudio / EsiDet development environment.

Application can be loaded through DetStudio development environment, utility ARMconfig or utility ARMdownload.

Development environment can be downloaded from www.amitomation.com.

Data provided in this datasheet are informative only. Binding detailed information is presented in operational manual (amr-ui2rdo2dm\_g\_en\_xxx.pdf). Documentation and examples can be downloaded from <a href="https://www.amitomation.com">www.amitomation.com</a>.

The options of system peripherals use depend on current possibilities of DetStudio/EsiDet development environment.

) 9001 **www.amit.cz**