

UMARS - MINI

UMARS-MINI is a universal metering and regulation equipment.

Technical Data

The control PLC system is the central unit. The input signal is digital or analogue from a designated device. UMARS-MINI contains 6 digital, user-programmable inputs, and 8 analogue inputs.

Communication may be provided via Ethernet, DB-Net protocol, or via RS485, either by DB-Net protocol, or MODBUS. The optional input signals can be programmed in AMIT-DetStudio, which can be downloaded from the Internet for free.

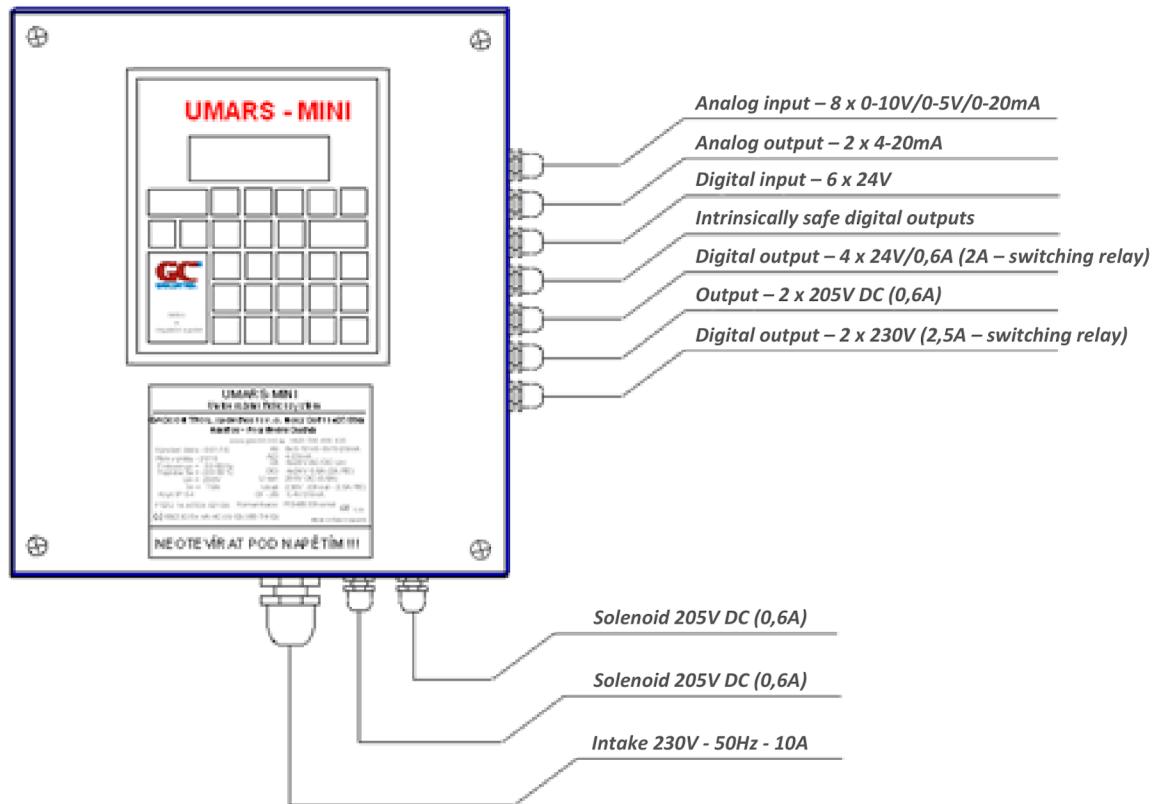
The equipment is approved by the PHYSICAL-TECHNICAL TESTING INSTITUTE, a state enterprise in Ostrava-Radvanice, and it can be used in Zone 2 in an environment with explosion hazard of the gaseous atmosphere. The equipment meets the requirements of standards CSN EN 60079-0, ed.4, CSN EN 60079-11, ed.2, and CSN EN 60079-15, ed.3.



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UMARS-MINI wiring diagram



No modifications may be made to the device. In case of malfunction, contact the manufacturer.

The equipment may be installed and commissioned only by a qualified employee who has to be knowledgeable about the methods of protection against explosion, and regulations and provisions for devices in areas with explosion hazard.

CABINET TECHNICAL DATA

Dimensions (wxhxd)	310x400x110 mm
Weight (approx.)	9,5 kg
Material	Aluminium
Protection	IP54

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EQUIPMENT TECHNICAL DATA

Can be used in Zone 2 in an environment with explosion hazard of the gaseous atmosphere (meets the requirements of standards CSN EN 60079-0, ed.4, CSN EN 60079-11, ed.2, and CSN EN 60079-15, ed.3)	
Operating Temperature	from - 30°C to 60°C
Power Voltage	230V
Rated Current	10A
Frequency	50-60Hz
Analog input	8x 0-10V / 0-5V / 0-20mA / Ni1000
Analog output	2x 4-20mA
Protection of analog inputs	diodes + resistor 10kΩ
AC/DC Universal digital inputs	6x 24V AC/DC
Intrinsically safe digital outputs	2x 5,4V / 20mA
24V Digital outputs	4x 24V/0,6 A (2A) (switching relay)
Outputs with solenoid	2x 205V DC (0,6A)
230V digital outputs	2x 230V (2,5A) (switching relay)
Protection of digital inputs and outputs, analog outputs	Transil 600W
Display	VFD green, 4x20 characters
Galvanic separation of analog inputs	No
RAM backup	5 years
RAM memory	1MB
Programming	DetStudio (NOS)
Wi-Fi	Stand. 802.11 b/g – connector RJ45
Communication channel Ethernet (DB-Net)	Galvanic separation
	Transmission speed
	Connector
RS485-Db-Net/Modbus-RTU	Transmission speed
	Connector

