

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.

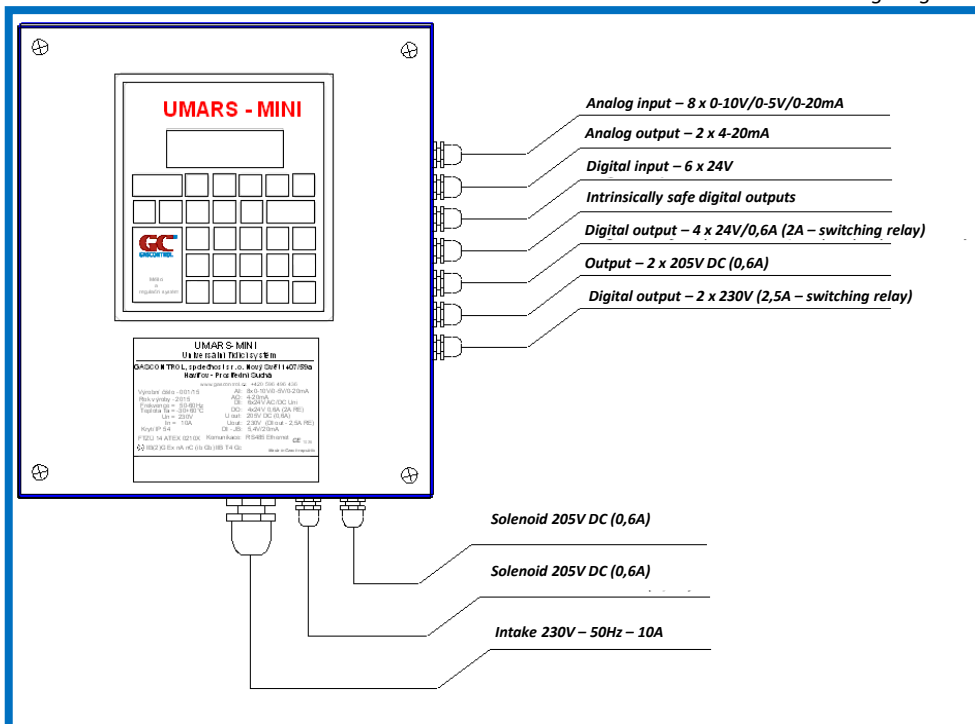
Communication may be provided via Ethernet, DB-Net protocol, or via RS485, either by DB-Net protocol, or MODBUS. The optional input signals can be programmed in AMIT-DetStudio, which can be downloaded from the Internet for free.

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.

GASCONTROL,
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GC | GROUP
MEMBER

UMARS-MINI wiring diagram



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.

UMARS - MINI

CABINET TECHNICAL DATA

| | |
|--------------------|----------------|
| Dimensions (w/h/d) | 310x400x110 mm |
| Weight (approx) | 9,5 kg |
| Material | Aluminium |
| Protection | IP54 |

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) | II 3(2)G Ex nA nC [Ib Gb] IIB T4 Gc CE 1026 | |
| Operating Temperature | From - 30°C to + 60°C | |
| Power Voltage | 230V | |
| Rated Current | 10A | |
| Frequency | 50-60Hz | |
| Analog inputs | 8x 0-10V / 0-5V / 0-20mA / Ni1000 | |
| Analog outputs | 2 x 4-20mA | |
| Protection of analog inputs | Diodes + Resistor 10kΩ | |
| AC/DC Universal digital inputs | 6 x 24V AC/DC | |
| Intrinsically safe digital outputs | 2 x 5,4V / 20mA | |
| 24V Digital outputs | 4 x 24V/0,6 A (2A) (switching relay) | |
| Outputs with solenoid | 2 x 205V DC (0,6A) | |
| 230V digital outputs | 2 x 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 | Yes |
| | Transmission speed | 10/100Mbps |
| | Connector | RJ45 |
| RS485-Db-Net/Modbus-RTU | Transmission speed | 9600, 19200, 38400, 57600 Bd |
| | Connector | WAGO s GO |

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*UMARS-MINI
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assembly*