

Modbus RTU



I/O Modules

New ultra-compact Modbus RTU I/O Modules



- Freely scalable up to 247 units in one Modbus segment
- Extremely slim, only 6.2 mm installation width
- Easy configurable via DIP switches or USB interface
- Highest accuracy and temperature stability
- Protective galvanic separation between all circuits, test voltage 3 kV AC
- In-Rail-Bus Connector for Power and Modbus
- Protection against overvoltage, polarity error and short circuit at all terminals
- Long service life, extremely low failure rate due to reduced self-heating
- Made in Germany, 5 Years Warranty

The DRAGO Modbus RTU I/O Modules combine complex field and control requirements such as protective galvanic isolation, maximum signal integrity and highest reliability with fast measurement data conversion and field bus provision.

Up to 4 fully isolated I/Os are available in the 6.2 mm slim modules. The configuration can be made via DIP switch or USB interface. In addition to standard signals, mA, V, mV, R, Pot, Hz, PWM and all current industrial sensors can be processed.

Power supply and bus connections are pre-wired on standard DIN rail by the In-Rail-Bus. All terminals are protected against short circuit, overvoltage and polarity reversal. The protective galvanic isolation with 3 kV test voltage permits working voltages up to 300 V. A low bus load allows up to 247 modules (988 I/Os) in one Modbus segment.

The low-power design ensures minimum self-heating for a wide temperature range. The high separation quality and short response time guarantee an economic integration in new plants and retrofit projects.

General Data

Protocol	Modbus RTU	Module Addressing:	1 ... 247
Configuration	Parity: Even, Odd, None	Response Delay:	1 ... 1000 ms
Baud Rate	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200		
Connectivity	Up to 247 DRAGO Modbus Devices (1/8 Load)		
Test voltage	3 kV AC, 50 Hz, 1 min., I/Os against Modbus/Power		
Ambient temperature	Operation: -25 °C to +70 °C	Transport and storage:	-40 °C to +85 °C
Power supply	24 V DC, voltage range 16.8 V ... 31.2 V DC		
Construction	99 x 107 x 6.2 mm (H x T x B), protection class IP 20 mounting on 35 mm DIN rail acc. to EN 60715		

DRAGO Modbus I/O Modules

DMB 96500



Universal AI Module

- High performance measuring input for all industrial sensors
- Uni-/Bipolar and TRMS capture of current and voltage
- Easy configurable by DIP switch or USB interface
- 15 User Settings, directly selectable via DIP switches
- Highest accuracy, measuring resolution up to 24 bit
- Fast measured value processing, high data rate

Input

Pt, Ni, TC, KTY, R, Pot
mV, V, mA DC/TRMS
Frequency, PWM
16 V Transmitter Supply

DMB 96100



Standard Signal AI Module

- Precise capture of industrial standard signals
- Excellent EMC performance and noise suppression
- Supply of 2/3-wire transmitters
- Easy configuration, fast commissioning
- Maximum reliability and durability

Input

0/4 ... 20 mA
0/2 ... 10 V
0/1 ... 5 V
16 V Transmitter Supply

DMB 96200



4 Channel AI Module

- Measuring and processing of 4 industrial standard signals
- Each channel programmable as current or voltage input
- All inputs individually safely galvanically isolated
- Fast signal acquisition, short processing times
- Extremely low costs per input channel

Input

0/4 ... 20 mA
0/2 ... 10 V
0/1 ... 5 V

DMB 96700



4 Channel DI/DO Module

- 4 independent controllable digital I/O channels
- Each channel programmable as input or output
- Extensive programmable operating functions
- Universal Open-Collector output
- Status indication for each I/O channel

Binary Input

5 V / 12 V / 24 V

Output

30 V / 100 mA

DMB 96800



4 Channel Relay Module

- 4 independent power relays, make or break contact
- Programmable switch-ON and switch-OFF behavior
- Extensive programmable operating functions
- Monitoring functions for operating conditions
- Status indication for each relay

SPST Power Relay

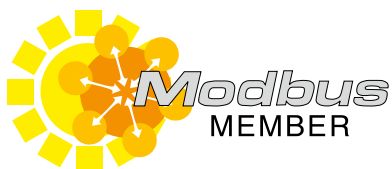
250 V AC / 30 V DC / 2 A



Product lines

- Modbus I/O Modules
- Isolation Amplifiers
- Transmitters
- Alarm Units
- Switch Amplifiers
- Relays & Switching Devices
- Interface Technology

- Universal:** High Functionality
- Cost Optimized:** Tiny Snap
- Extremely Compact:** 6 mm Series



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