



Multi-channel process display

benefits

- Up to 90 channels for inputs/outputs
- 35 mathematical/logical functions
- 8 integrated PID controllers with autotuning
- 8 time-controlled/event-controlled profiles
- Touchscreen operation and remote operation
- Multi-level password system
- Web server with HTML5 widgets
- E-mail function

Application

Universal application for displaying and logging up to 16 independent analogue input signals, 8 binary inputs, 4 resistance thermometer inputs (RTD), 4 thermocouple inputs (TC) with freely selectable scaling and units. MPA 20 is very well suited for applications in which several physical measured variables reflect the state of an object and the state is controlled by several parameters at the same time.

Description

Digital display unit with integrated data logger in plastic housing for control panel mounting which allows for simultaneous measurement, visualisation and controlling of multiple channels. MPA 20 can operate autonomously or in conjunction with external measuring equipment and actuators. The multi-channel process display is designed as a modular device that consists of a base unit and optional input modules and output modules. The base unit comprises the main processor, a touch display, a switched-mode power supply (two available versions: 19–35 VDC and 85–260 VAC) as well as the communication interfaces (USB and RS 485).

Technical Specifications

Display

TFT touchscreen display 5.7"

User interface languages: German, English, French

Indication of value, bar chart, diagram, pointer, groups

Measuring range

Current inputs 0–20 mA

Voltage inputs 0–5 V, 1–5 V, 0–10 V, 2–10 V

Resistance thermometers

Thermocouple

Operating temperature range

Ambient: 0/50 °C

Supply voltage

AC/DC 85 – 260 V

Input resistance

Current: < 65 Ohm

voltage: > 100 kOhm

Housing

Panel housing

W x H x D: 144 x 144 x 110 mm

Weight

0.35 kg

Degree of protection

Housing, connection terminals: IP 20 (EN 60529)

Electrical connection

Plug-in screw terminals (1.5 mm²)

Interfaces

RS 485 (Modbus RTU)

RS 232

USB host

Ethernet (Modbus TCP)

Data memory

Internal memory 1.5 GB, max. 125,000,000 values

Acquisition of measured values of up to 60 channels

2 selectable measurement frequencies (max. 10 Hz)

comprehensive trigger functions

Data transmission via USB flash drive or Ethernet

Slot P

02

Supply AC/DC 85–260 V

Output DC 24 V 200 mA

Digital input DC 24 V, RS-485 Modbus RTU

Options

- Software
- DIN rail adapter

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- DIN rail adapter

Versions

	Slot D	Slot C/B/A		Part no.
Supply AC/ DC 85–260 V	empty	24 x current input (I)	●	MPA 20 020101
Supply AC/ DC 85–260 V	empty	16 x binary input (D)	●	MPA 20 020102
Supply AC/ DC 85–260 V	empty	4 x resistance thermometer input (RTD)	●	MPA 20 020103
Supply AC/ DC 85–260 V	empty	4 x thermocouple input (TC)	●	MPA 20 020104
Supply AC/ DC 85–260 V	empty	3 x universal input (I, U, RTD, TC)	●	MPA 20 020105
Supply AC/ DC 85–260 V	empty	4 x current output	●	MPA 20 020106
Supply AC/ DC 85–260 V	empty	12 x SPST relay 1A	●	MPA 20 020107
Supply AC/ DC 85–260 V	USB host port rear	24 x current input (I)	●	MPA 20 020201
Supply AC/ DC 85–260 V	USB host port rear	16 x binary input (D)	●	MPA 20 020202
Supply AC/ DC 85–260 V	USB host port rear	4 x resistance thermometer input (RTD)	●	MPA 20 020203
Supply AC/ DC 85–260 V	USB host port rear	4 x thermocouple input (TC)	●	MPA 20 020204
Supply AC/ DC 85–260 V	USB host port rear	3 x universal input (I, U, RTD, TC)	●	MPA 20 020205
Supply AC/ DC 85–260 V	USB host port rear	4 x current output	●	MPA 20 020206
Supply AC/ DC 85–260 V	USB host port rear	12 x SPST relay 1A	●	MPA 20 020207
Supply AC/ DC 85–260 V	USB host port rear Ethernet 10 Mbit/s	24 x current input (I)	●	MPA 20 020301
Supply AC/ DC 85–260 V	USB host port rear	16 x binary input (D)	●	MPA 20 020302

		Ethernet 10 Mbit/s			
	Supply AC/ DC 85–260 V	USB host port rear Ethernet 10 Mbit/s	4 x resistance thermometer input (RTD)	●	MPA 20 020303
	Supply AC/ DC 85–260 V	USB host port rear Ethernet 10 Mbit/s	4 x thermocouple input (TC)	●	MPA 20 020304
	Supply AC/ DC 85–260 V	USB host port rear Ethernet 10 Mbit/s	3 x universal input (I, U, RTD, TC)	●	MPA 20 020305
	Supply AC/ DC 85–260 V	USB host port rear Ethernet 10 Mbit/s	4 x current output	●	MPA 20 020306
	Supply AC/ DC 85–260 V	USB host port rear Ethernet 10 Mbit/s	12 x SPST relay 1A	●	MPA 20 020307

- in-stock items
- Non-stock items