



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 16 – 35 V, DC 19 – 50 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

Front (sealing frame)

IP 65 (EN 60529)

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

Options

- Software
- DIN rail adapter

Slot P

01

Supply DC 19–50 V, AC 16–35 V

Output DC 24 V 200 mA

Digital input DC 24 V, RS-485 Modbus RTU

Special version

01

Sealing frame IP 65

Options

- Software
- DIN rail adapter

Versions

			Slot D	Slot C/B/A		Part no.
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	empty	24 x current input (I)	●	MPA 20 01010101
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	empty	16 x binary input (D)	●	MPA 20 01010201
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	empty	4 x resistance thermometer input (RTD)	●	MPA 20 01010301
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	empty	4 x thermocouple input (TC)	●	MPA 20 01010401
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	empty	3 x universal input (I, U, RTD, TC)	●	MPA 20 01010501
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	empty	4 x current output	●	MPA 20 01010601
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	empty	12 x SPST relay 1A	●	MPA 20 01010701
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear	24 x current input (I)	●	MPA 20 01020101
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear	16 x binary input (D)	●	MPA 20 01020201
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear	4 x resistance thermometer input (RTD)	●	MPA 20 01020301
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear	4 x thermocouple input (TC)	●	MPA 20 01020401
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear	3 x universal input (I, U, RTD, TC)	●	MPA 20 01020501
	Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear	4 x current output	●	MPA 20 01020601

Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear	12 x SPST relay 1A	●	MPA 20 01020701
Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear Ethernet 10 Mbit/s	24 x current input (I)	●	MPA 20 01030101
Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear Ethernet 10 Mbit/s	16 x binary input (D)	●	MPA 20 01030201
Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear Ethernet 10 Mbit/s	4 x resistance thermometer input (RTD)	●	MPA 20 01030301
Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear Ethernet 10 Mbit/s	4 x thermocouple input (TC)	●	MPA 20 01030401
Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear Ethernet 10 Mbit/s	3 x universal input (I, U, RTD, TC)	●	MPA 20 01030501
Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear Ethernet 10 Mbit/s	4 x current output	●	MPA 20 01030601
Supply DC 19–50 V, AC 16–35 V	Special version sealing frame IP 65	USB host port rear Ethernet 10 Mbit/s	12 x SPST relay 1A	●	MPA 20 01030701

● in-stock items

● Non-stock items