



## Multi-channel process display MPA 20

**Part no. MPA 20 01030502**

**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 (USB at front)  
IP 40 (EN 60529)  
Housing, connection terminals: IP 20 (EN 60529)

Electrical connection

Plug-in screw terminals (1.5 mm<sup>2</sup>)

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

Slot D

03  
USB host port rear  
Ethernet 10 Mbit/s

Slot C/B/A

05  
3 x universal input (I, U, RTD, TC)

Special version

02  
USB host port front

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<br>USB host port front | USB host port rear<br>Ethernet 10 Mbit/s | 3 x universal input (I, U, RTD, TC) |  | MPA 20<br>01030502 |

-  in-stock items
-  Non-stock items