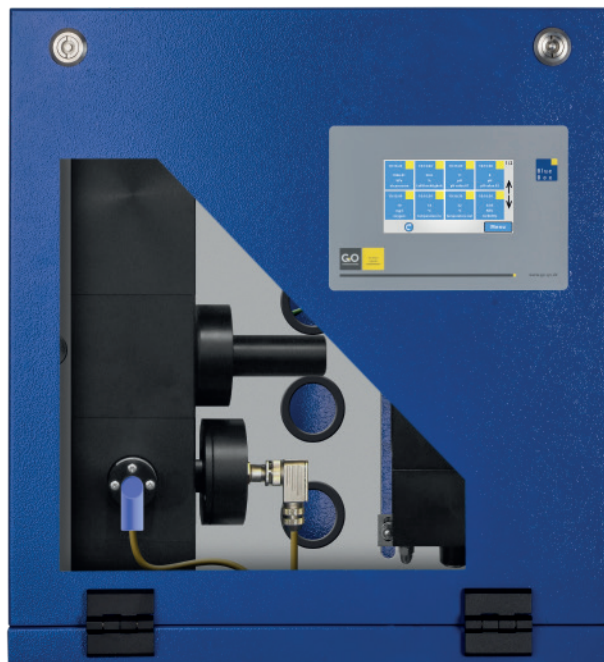


MPS Multi-Parameter-System

The **Multi-Parameter System (MPS)** offers a complete solution for measurement. It enables the integration of a range of flow-through sensors and the simultaneous analysis of data in a single system.

Additionally, the Multi-Parameter System contains extensive control functions, as well as the possibility of remote access and control via internet and mobile networks.



Application Areas



Drinking Water

- Quality control
- Alarm systems



Process Measurement & Control Technology

- Process monitoring in industrial facilities
- Control of process water treatment
- Process optimization

Parameters / Sensors

- Biochemical oxygen demand (BOD)
 - Chemical oxygen demand (COD)
 - Chlorine
 - Colour (Hazen)
 - Conductivity (inductive)
 - Dissolved organic carbon (DOC)
 - Redox (ORP)
 - SAC 254nm
 - Temperature
 - Total organic carbon (TOC)
 - Total suspended solids (TSS)
 - pH
 - Turbidity (FNU)
 - Flow rate
 - ISE
 - Nitrate
 - Oxygen
- * Further parameters with application specific calibration

Main Functions & Features



Monitoring Function



Control Function (PLC)



Automated Cleaning



UV/Vis Spectrometer



Intelligent Event Handling



Cloud Data Service



Modular & Expandable



CAN bus, Modbus & Profibus

Technical data

Power supply 24 VDC

Power consumption (typical) 15 W

Dimensions (wxhxd)

MPS compact 45 x 48 x 26 cm

MPS 60 x 70 x 30 cm

IP protection class IP 54 / IP 65 [optional]

Working memory

Standard 512 MB / 2GB [optional]

Ring memory for programs and measurement data

Colour touch screen 480 x 272 pixel

Ambient temperature -20 to +45 °C

Interfaces

1x RS-232, RS-485, var. protocols e.g. Modbus

1x CAN bus for connection of additional modules, sensors & actuators

1x Ethernet [TCP/IP], Modbus [TCP/IP]

Profibus [optional]

GPRS / UMTS / LTE modem [optional]

Inputs

MPS compact up to 4 sensors for selectable parameters

MPS up to 8 sensors for selectable parameters

2x Current input 4-20 mA

2x Digital-In (static) potential free contacts

1x Pulse-In (PNP/NPN selectable)

Outputs

2x Current output 4-20 mA

2x Relay with a switching capacity of 230 VAC; 2 A

Features & Functions

Modular & expandable

Real-time calculation of complex measuring units

Freely configurable system

Virtual sensors

Control function (PLC)

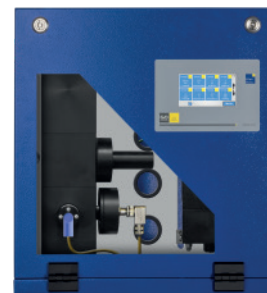
Software

BlueBox PC software for system management

SCADA software

Product variants

The Multi Parameter System is available in two variants. Up to 4 sensors can be integrated into the MPS compact, while the MPS can house up to 8 sensors.



MPS compact

MPS



Art. no. 487 0000

Art. no. 487 0003