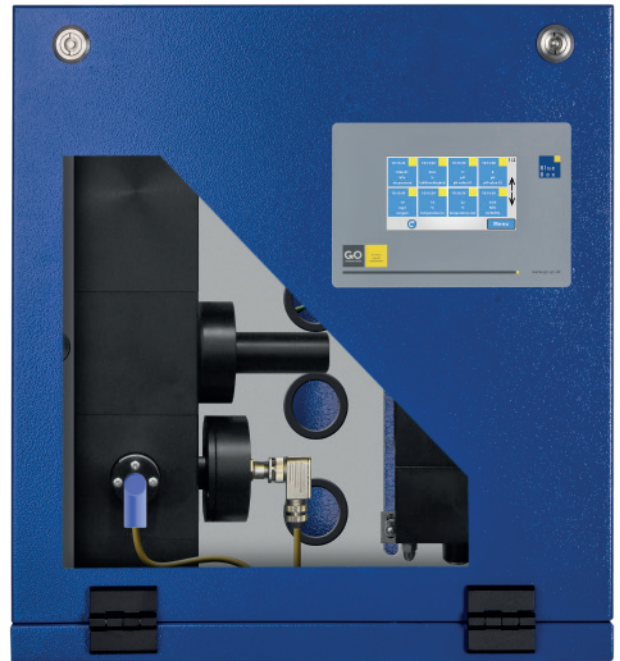


# MPS Multi-Parameter-System

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)

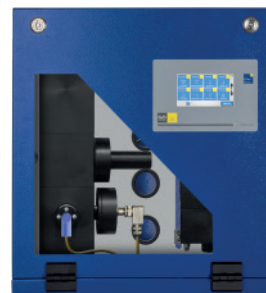
## Software

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