

pH Measurement

Transmitter - Liquisys M

The Liquisys M CPM223/253 pH/ORP Measurement Transmitter is designed for analogue sensors, digital pH sensors and for ISFET sensors.

The modular design of the Liquisys M allows easy adaption to customer requirements.

Starting with the basic version for "measurement and alarm generation", the transmitter can be equipped with additional software and hardware modules for special applications. These modules can also be retrofitted.



Liquisys M (left)
Liquiline M (below)

Key features:

- simple to operate: clear menu structure with plain language for easy configuration
- two-line display allows simultaneous display of measured value and temperature
- ultra simple two-point calibration via the CAL key
- sensor check system for pH glass and reference
- live check of the sensor



Recent Liquisys M Installation for Dissolved Oxygen, ORP and Memosens pH

Transmitter - Liquiline M

Liquiline M CM42 is a modular two-wire Transmitter for all areas of process engineering.

It is designed for operation with all types of pH sensors (glass, ISFET, digital sensors) and conductivity sensors.

Key features:

- large high-contrast display & alarm LED
- robust, corrosion-resistant plastic or stainless steel housing with membrane keypad
- user-guided commissioning, graphic display and plain text guidance
- with Memosens technology, a calibration in the plant is not required
- predictive maintenance system detects when a sensor has to be cleaned, calibrated or replaced
- FOUNDATION FIELDBUS, PROFIBUS and HART fieldbus protocols

Immersion & process assembly

The immersion and process assembly DipFit W CPA 111 is used for simple installation of sensors in waste water / water treatment as well as process applications.

It is designed for use in open channels, basins and tanks and is suitable for use with elevated pressures of up to 4 bar.

The bayonet mounting method allows electrodes to be removed and installed quickly and conveniently.

The Chemoclean chemical electrode cleaning system is easily integrated.



Automatic Cleaning System

Wherever pH, dissolved oxygen or turbidity are being monitored continuously, the proven Chemoclean CYR 10 / CYR 20 Spray cleaning system guarantees long life and excellent measuring reliability combined with low maintenance overheads.

In order to guarantee measurement reliability in many applications, the maintenance-free Chemoclean system is indispensable.

Chemoclean provides chemical-saving cleaning with user-adjustable programme and "cleanser saving function".



Flow Assembly

The flow assembly FlowFit P CPA 240 is intended for the installation of pH, redox and temperature sensors in pipes.

Benefits at a glance

- simple installation and removal of the electrode holder (e.g. for calibration)
- three mounting positions for sensors and cleaning
- flexible connection to the process by various connectors and installation versions
- suitable for use at high pressures and temperatures (up to 10 bar and 150°C)
- integrated sampling connector



Memosens digital pH sensors



Endress+Hauser have opened a new era in pH measurement with the Memosens digital pH electrode:

- Integrated memory in the electrode for storage of calibration data
- Contact free sensor connection by inductive coupling
- Error message if electrode disconnected
- Auto sensor recognition

It is now possible to pre-calibrate pH sensors and have them ready for installation when required.

Memosens can be changed in a matter of seconds with minimum down time and calibration data is automatically transferred to the transmitter and used to calculate the current pH value.

A key feature of Memosens is the non-contact inductive electrical connection between electrode and cable that eliminates measurement errors caused by contamination and moisture in traditional systems.

The bayonet coupling and inductive connection system means that replacing a sensor in wet or dirty conditions is no longer an issue.

pH electrodes with Memosens technology



More information on pH?

Circle Enquiry No:
Liquisys M CPM: 904
Liquiline M: 905
Memosens: 906
DipFit W: 907
Chemoclean: 908
Flow Assembly: 909
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