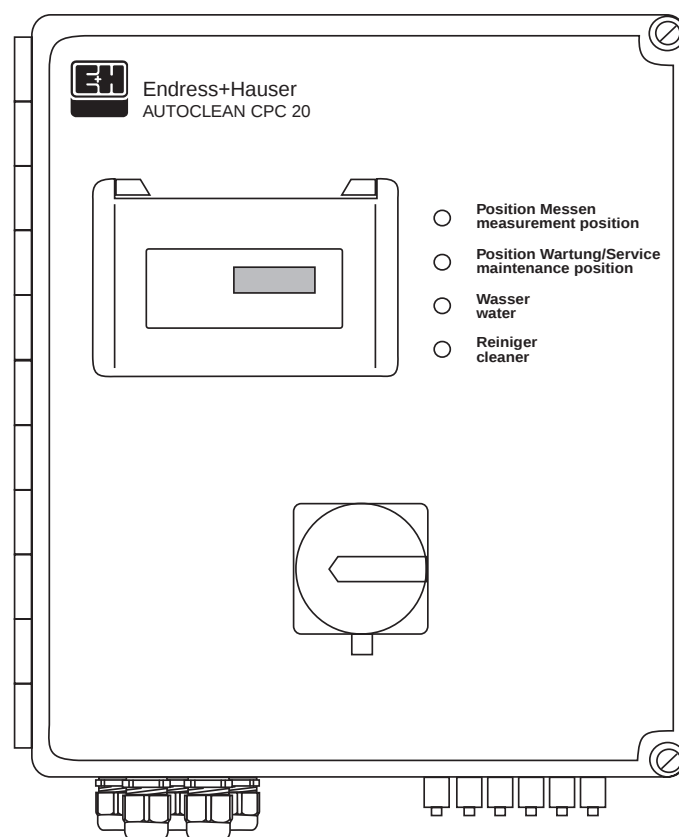
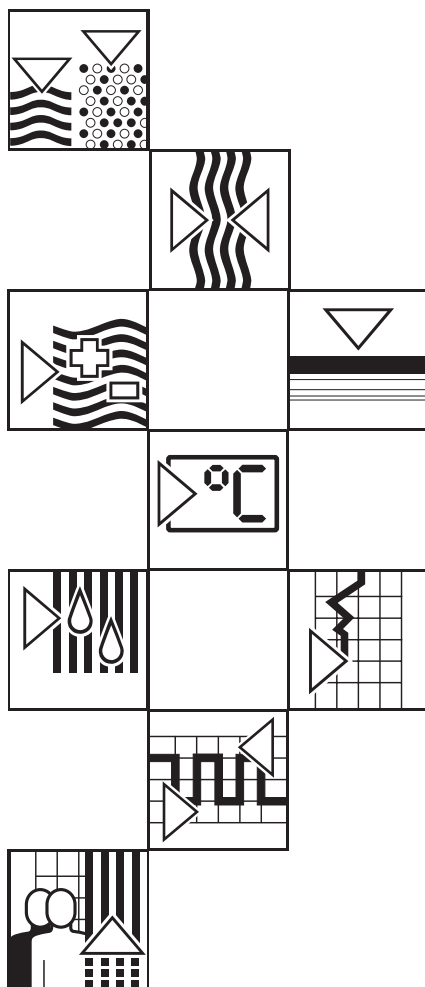


autoclean
CPC 20 / CPC 20 Z
Control System for
Automatic Cleaning of
pH Electrodes

Operating Instructions



Quality made by
Endress+Hauser



ISO 9001

Endress + Hauser

Nothing beats know-how



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1 General information

1.1 Symbols used

**Warning:**

This symbol alerts to hazards which may cause serious injuries as well as damage to equipment if ignored.

**Caution:**

This symbol alerts to possible malfunction due to operator error.

**Note:**

This symbol indicates important items of information.

1.2 Conformity statement

The Autoclean CPC 20 / CPC 20 Z control system has been developed and manufactured in accordance with the applicable European standards and directives.

**Note:**

An EC certificate of conformity may be requested from Endress+Hauser. An EC certificate of conformity is supplied with variant CPC 20 Z for installation in explosive atmospheres.

2 Safety

2.1 Intended use

The Autoclean CPC 20 / CPC 20 Z control system is used to control the automatic cleaning of pH electrodes. It can be connected to the retractable assemblies CPA 463, CPA 463S

or CPA 465. The Ex version CPC 20 Z permits operation in explosive atmospheres.

2.2 General safety notes



Warning:

Operation of the device in a manner other than as described in these operating instructions can lead to unsafe and improper functioning of the measuring system.

Installation, start-up, operation

The Autoclean CPC 20 / CPC 20 Z system has been designed for safe operation according to the state of the art in engineering and in keeping with the applicable regulations and EC directives; see »Technical data«.

However, if used improperly or other than for the intended purpose, it may pose a hazard, e.g. due to improper connection.

Installation, electrical connection, start-up, operation and maintenance of the measuring system must therefore be performed exclusively by trained specialists authorised by the system operator. This personnel must have read and understood these operating instructions and must adhere to them.

Immunity to interference

This device is protected against interference, such as pulse-shaped transients, high frequency and electrostatic discharges, according to the applicable European standards.

This is only valid, however, for a device connected according to the notes in these installation and operating instructions.

3 Description

3.1 System components

All system components are completely pre-wired. The housing comes with Pg cable glands, pneumatic connections and a vent connection. Power, the CYR 10 injector, the external control signals and the signal outputs are connected to the terminal strip in the control cabinet.

The supply voltage for the non-Ex version is 230, 110 or 100 V AC or 24 V DC. All system components are supplied with 24 V DC via the built-in power supply unit.

The Ex version is supplied with power via the CPM 152 measuring transmitter or via an intrinsically safe power supply.

Version C

The control system CPC 20-C (control via program sequencer CYR 20) comprises:

- program sequencer CYR 20,
- pneumatic valves for assembly control,
- feedback devices (pneumatic or inductive),
- switches and keys for manual and automatic operation, and
- LED operating status indicators.



Note:

The CPC 20-M / CPC 20Z-M can only be controlled with the CPM 152 transmitter in conjunction with software version 2.10 or later.

Version M

The control system CPC 20-M (control via CPM 152 transmitter) comprises:

- pneumatic valves for assembly control, and
- feedback devices (pneumatic or inductive).

Version Z

The control system CPC 20 Z (control via CPM 152 transmitter) comprises:

- pneumatic valves for assembly control, and
- feedback devices (pneumatic or inductive).

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