

Free Chlorine analyser M 1035 C



- **Measuring range 0 - 5 mg/l**
- **2 measuring electrodes gold/copper + reference electrode (optional)**
- **Stable measurement**— open flow measurement cell with a constant flow
- **Continuous cleaning** of measuring electrodes
- **Alarm** for measuring cell or regulation errors
- **CANbus communication** to easily connect several units to the control unit

- ⇒ **Insight in measurement cell parameters for rapid detection of interfering substances**
- ⇒ **Modular electronics for simple service**
- ⇒ **Clear graphical display for all measured parameters**

GENERAL

Free residual chlorine analyser series M 1035 C is designed for measurement and control of drinking water, waste water treatment and swimming-pool applications.

Two basic measured parameters are **free chlorine** and **temperature**.

The unit enables the construction of additional expansion modules, for measuring the pH value and the redox potential (for drinking and waste water).

Amperometric measurement method using two electrodes and an additional third reference electrode provides a constant and continuous measurements.

The unit consists of the following subassemblies:

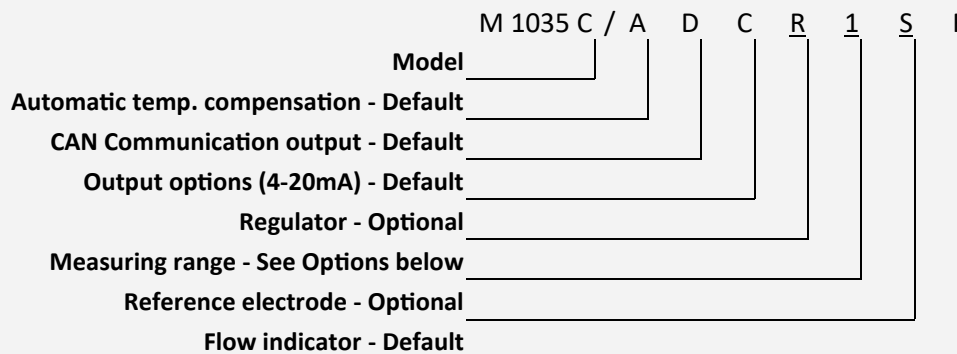
- a mechanical filter sample
- an indicator of the flow of the sample
- self-cleaning measuring cell
- measurement - regulation electronics
- cover

The user interface for parameterization and calibration is performed via graphical LCD display.

Control, regulation and control of disinfection processes are enabled by analog and digital outputs and the CANbus digital communication. The control module supports the connection of actuators - dosing pump with analog and digital inputs as well as solenoid and motorized valves - for two-point and continuous dosing.

Software design of the control module contains a number of protective mechanisms against overdosing.

ORDER CODE



OPTIONS:

- **Regulator:** yes "R", without it the letter is not written in
- **Measuring range:** "1" for 0 to 1 mgCl₂/l (0 –5 mgCl₂/l adjustable)
"X"- on request
- **Reference:** yes "S", without it the letter is not written in

TECHNICAL DATA



General data :

Ambient temperature: -10...+50°C
 Relative humidity: 10...95 % non-condensating
 Control unit protection: IP 65
 Dimensions: 670 x 322 x 113
 Weight: 6,5 kg
 Flow: minimum 0,5 l/min

Measuring range (M.R.): 0 - 5 mg/l
 Measuring principle: (amperometric): **Copper-gold electrodes**
 (optionally third reference electrode s available)
 Measured value resolution: 0,01 mg/l
 Deviation of indication, measured value: maximum 2% of MR
 pH range: 6.5...8
 Water conductivity: > 50µS
 Automatic temperature compensation range: 0...+50°C

Electrical data :

Supply voltage: 24 VAC/VDC ±20%
 Power: 5 W Maximum
 Isolation voltage: 500V (to sensor, output signal, reg. cont.)

Current output connector:
 Modules: 2
 Current range: 4...20 mA
 Load: maximum 800 E at 24VDC adjustable to (MR)
 Output range:
 Output Mode options:
 - Free chlorine signal output
 - Temperature
 - Regulator output

Regulator connector:
 Regulator: 3 point or PI regulator
 Outputs: 3 x 24 VAC / 250 mA
 Inputs: 3 x 24 VAC
 Mode options:
 - Motor Control
 - Pump Control

MEASURE DRAWINGS

