

CHEWATEC COOLPRO

Reliable solution for cooling water

OPTIMAL CARE ABOUT COOLING SYSTEM



Conductivity, pH, ORP

Treatment of cooling water in evaporation cooling systems

Measured variables pH / ORP / chlorine / bromine

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CHEWATEC COOLPRO records all the necessary measuring parameters for cooling water treatment and controls functions necessary for smooth operation. It measures the electrolytic conductivity. Biocide metering – time—dependent or as measurement and control, VDI 2047-compliant (e.g. chlorine). Corrosion measurement – determines whether enough corrosion inhibitor is being metered. Also pH measurement – measures and control the pH value.

Your benefits

- Timer-controlled biocide dosing
- Optional online measurement and control of the biocide concentration
- Built in web interface for device configuration and remote maintenance
- Optional WLAN/Wifi access point
- Bleed lockout: blocks bleeding after biocide metering has taken place
- Pre-bleed: performs bleeding before biocide metering
- Operating status displayed by 10 status LEDs
- Accuracy up to 0.3% based on full-scale reading

Areas of application

- Control of bleeding in evaporation cooling systems
- Volume-proportional control or regulation of the corrosion inhibitors, de-foamers and dispersants
- Measurement and control of the inhibitor concentration through the use of a fluorescence sensor
- pH measurement and optional pH control
- Metering of up to 2 biocides based on time or measured values

Technical Information

Measuring ranges

- pH 0.00 ... 14.00
- temperature via Pt 100/Pt 1000 0 ... 150°C
- ORP -1,500 ... +1,500 mV
- Chlorine/Chlorine dioxide/Bromine

Resolution

- pH 0.01
- ORP 1mV
- Chlorine/Bromine 0.001/0.01 ppm
- pH+ and/or pH-

Control characteristic

- P/PID

Inputs

- 1x input for flow signal
- 2x serial sensor input for CFTS sensors
- 8x digital status input

Outputs

- 5x relay output as changeover contact (3x potential-free, 2x AC/DC)
- 4x pulse frequency output

Electrical connection

- 90–253 V – 50/60 Hz – 25 VA – 24 V DC

Field bus connection

- Modbus RTU, additional field buses via gateway

Ambient temperature

- 0 ... 50°C (for use indoors or with a protective enclosure)

Climate

- Permissible relative humidity: 95%
- Non condensing DIN IEC 60068-2-30

Enclosure rating

- Wall-mounted - IP 65

Tests and approvals

- CE
- MET (corresponding to UL as per IEC 61010)

Dimensions

- 220 x 250 x 122 mm (H x W x D)