

Controller SlimFLEX 5a

Controller SlimFLEX 5a, the entry level class for cooling water treatment, VDI 2047 Sheet 2 and BLMSchV 42-compliant, the innovative and flexible controller.



The SlimFLEX5a records all the important measuring parameters for cooling water treatment and controls functions necessary for smooth operation:

- Time-dependent biocide metering (boost metering). Control can be done by measuring the ORP voltage in the cooling water.

- Measurement of electrolytic conductivity – controls bleeding.
- pH measurement with integral PID controller.

Your benefits

- A web interface for unit configuration and remote maintenance standard, Wi-Fi is optionally available
- Forced bleeding: performs bleeding before biocide metering
- Bleed lock: blocks bleeding after biocide metering has taken place
- Operating status displayed by 6 status LEDs

Field of application

- Control of bleeding in smaller evaporation cooling systems
- Volume-proportional control or regulation of the metering of corrosion inhibitors, de-foamers and dispersants
- pH measurement and optional pH control
- Time-dependent metering of up to 2 biocides

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Technical Data

Measuring range	Conductivity: 10 ... 10,000 $\mu\text{S/cm}$ pH: 0.00 ... 14.00 ORP voltage: -1,500 ... +1,500 mV
Resolution	Conductivity: 1 $\mu\text{S/cm}$ pH: 0.01 ORP voltage: 1 mV Temperature: 0.1 $^{\circ}\text{C}$
Inputs and outputs	2 plug-in module positions: Plug-in modules for 2-channel modules: mA outputs, pH/ORP inputs 5 output relays acting as changeover contacts, of which 3 are potential-free and 2 are AC/DC 1 serial sensor input for CFTS sensor 6 digital status inputs
Accuracy	0.3% based on the full-scale reading
Measurement input	pH/ORP (input resistance $> 0.5 \times 10^{12} \Omega$)
Temperature compensation	Pt 100/Pt 1000 for pH
Temperature correction range	0 ... 100 $^{\circ}\text{C}$
Control characteristic	P/PID control
Electrical connection	100 – 230 V, 50/60 Hz, 25 VA
Ambient temperature	0 ... 50 $^{\circ}\text{C}$ (for use indoors or with a protective enclosure)
Enclosure rating	Wall-mounted: IP 65
Tests and approvals	CE, MET (corresponding to UL as per IEC 61010)
Housing material	PPE with flame-proof finish
Dimensions H x W x D	220 x 250 x 122 mm
Climate	Permissible relative humidity: 95%, non-condensing DIN IEC 60068 – 2-30

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