

Controller AEGIS X

Extremely flexible for extremely large cooling systems: Controller AEGIS X



AEGIS X ensures that evaporation cooling systems are run as efficiently as possible. The controller is highly flexible and suited to large cooling systems with many parameters. Using digital communication options, cooling towers can be conveniently monitored and their data evaluated remotely.

Technical Details

Comprehensive inputs and outputs

- Up to 24 flexible sensor inputs and mA outputs (8 per device), e.g. CTFS sensor, linear polarisation resistor (LPR) corrosion sensor
- Up to 30 output relays and pulse outputs (10 per device) to control pumps and other actuators
- Up to 24 digital inputs (8 per device) to control level switches, water meters and remote switches
- Up to 12 pulse frequency outputs
- Up to 18 relays

Communication options

- In-built Modbus RTU and via gateways (BACnet, Modbus TCP, PROFINET)
- Web interface via Wi-Fi and Ethernet, FTP server, rest API, MQTT client interface. The client interface is an intuitive remote control via a Wi-Fi or network connection to your PC or smartphone, e.g. for configuration settings or setpoint settings.



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Technical Data

Measured variables and measuring ranges	<p>Conductivity: with the digital sensor CTFS: 0.1 - 10 mS/cm Via conductivity module L3 depending on sensor used (LMP, LFT): 50 µS/cm - 20 mS/cm Via mA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm, 200 mS/cm</p> <p>Type of connection mV: pH: 0.00 ... 14.00 ORP potential: -1500 ... +1500 mV</p> <p>Type of connection mA (amperometric measured variables, measuring ranges corresponding to sensors, 2 ppm, 10 ppm): Chlorine Chlorine dioxide Chlorite Bromine Ozone Hydrogen peroxide Peracetic acid</p> <p>Temperature: via Pt 100/Pt 1000, measuring range 0 ... 150 °C</p>
Inputs and outputs	<p>Inputs 4 plug-in module slots per unit for 2-channel serial sensor input module 2-channel conductivity input module 2-channel mV input module 2-channel mV/mA input module 2-channel mA input module</p> <p>Outputs 2-channel mA output module 6 output relays as changeover contacts, of which 3 are potential-free and 3 are AC/DC 4 pulse frequency outputs for controlling metering pumps 8 digital control inputs for contact water meter, flow switch and pause for locking</p>
Resolution	<p>pH: 0.01 pH ORP: 1 mV Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 vol. %</p>
Accuracy	0.3% based on the full-scale reading
Temperature compensation	Pt 100/Pt 1000 for pH
Control characteristic	P/PI/PID control
Electrical Connection	100 – 230 V, 50/60 Hz
Ambient temperature	-5 ... 50 °C at max. 95% relative air humidity (non-condensing)
Tests and approvals	CE, MET, UK CA
Housing material	PC with flameproofing equipment
Dimensions	276 x 424 x 137 mm (H x W x D)
Enclosure rating	Wall-mounted: IP 67
Field bus connection	Modbus RTU, additional field buses via gateway