# AEGIS II Controller

## The most innovative and flexible water treatment controller available!




**The AEGIS II provides reliable control and offers the most flexible communication options to optimize efficiency and profitability for all your cooling, boiler, and wastewater or disinfection applications.**

## Features and Benefits

- Built In Wireless Access Point and Ethernet
- Updated Keypad design for easy menu navigation
- Enhanced responsive browser views for Smart Phones and Tablets
- Fluorometer connection via 4-20mA or direct Modbus
- 8 digital inputs for multiple flow meters for status indicators
- 10 Status LED's
- Integral Data Logger
- Optional Modbus/BACnet communications
- 9 Flexible control outputs include: ON/OFF setpoint or time-based control & Frequency (Pulse) Proportional or volumetric control
- Conductivity, pH, ORP, Corrosion, Chlorine, Bromine, PAA, Chlorine dioxide, Fluorescence and more



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## Technical Data

| | |
|---|---|
| Measuring range | **Conductivity:**<br>with the digital sensor CTFS via serial module D1: 0.1 - 10 mS/cm<br>via conductivity module L3 depending on the sensor used (LMP, LFT): 50 µS/cm - 20 mS/cm<br>via mA module AA with the inductive conductivity sensor ICT 8: up to 2 mS/cm, 20 mS/cm, 200 mS/cm<br>**Connection type mV:**<br>pH: 0.00 ... 14.00<br>ORP voltage: -1,500 ... +1,500 mV<br>**Connection type mA (amperometric variables, measuring ranges according to the sensors):**<br>Chlorine<br>Chlorine dioxide<br>Bromine<br>**Temperature:**<br>via Pt 100/Pt 1000, measuring range 32 °F ... 302 °F (0 ... 150 °C) |
| Resolution | pH: 0.01<br>ORP voltage: 1 mV<br>temperature: 0.2 °F (0.1 °C)<br>amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 vol.%, 0.1 vol.% |
| Inputs and outputs | 3 plug-in module slots for 2-channel plug-in modules according to identity code<br>1 input for any analogue signals<br>5 output relays acting as changeover contacts, of which 3 are potential-free and 2 are AC/DC<br>4 pulse frequency outputs for controlling metering pumps<br>2 serial sensor inputs for CFTS conductivity sensors and CRS corrosion sensors<br>8 digital control inputs for contact water meter, flow switch and pause for locking |
| Accuracy | 0.3% based on the full-scale reading |
| Temperature compensation | Pt 100/Pt 1000 for pH |
| Control characteristic | P/PID control |
| 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 | 32 … 122 °F (0 … 50 °C) (for use indoors or with a protective enclosure) |
| Enclosure rating | Wall-mounted: IP 67 |
| 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 | 9.4 x 14.2 x 4.3 inch |

## Description of modules

### Module AA mA/mA sensor input (slot 1-4):

- 2 sensor inputs for connecting, e.g. chlorine sensors, such as CBR or pH transducer pHV1

### Module V2 mV/mV temperature sensor input (slot 1-4):

- 2 sensor inputs for connecting pH and ORP sensors and temperature sensors Pt100/ Pt1000, e.g. of type PHER, RHER, PHEI, RHEIC, Pt100SE

### Module H1 mA/mA output (slot 1-4):

- 2 electrically isolated 0/4-20 mA analogue outputs for the output of measured values or control variables

### Module D1 serial sensor module for monitoring (slot 1-4):

- Module 2 digital sensor inputs for connecting CTFS or CRS corrosion sensors

### Module V1 mV/temperature + mA module (slot 1-4):

- 1 sensor input for pH or ORP sensor and temperature sensor Pt100/Pt1000
- 1 sensor input for connecting, e.g. chlorine sensors, such as CBR or pH transducer pHV1

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