# Controller AEGIS II

## Treatment of cooling water in evaporation cooling systems



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

- Measures the electrolytic conductivity controls bleeding
- Biocide metering time-dependent or as measurement and control
- Corrosion measurement determines whether enough corrosion inhibitor is being metered
- PH measurement measures and controls the pH value

#### Your benefits

- Control of biocide metering over 1, 7 or 28 days, real-time clock
- If desired, the biocide concentration can be measured and controlled online.
- Measurement of conductivity, temperature and flow control with the CTFS type digital sensor.
- Serial web interface for unit configuration and remote maintenance with e-mail alarms (the controller must be connected to the Internet for e-mail alarms). WiFi as an option.
- Forced bleeding: performs bleeding before biocide metering, based on time or measured values.
- Bleed lock: blocks bleeding after biocide metering has taken place.

#### **Field of application**

- Control of bleeding in evaporation cooling systems.
- Volume-proportional control or regulation of the metering of corrosion inhibitors, de-foamers and dispersants.
- Measurement and control of the inhibitor concentration through the use of a fluorescence sensor.
- Measurement and optionally control of the pH value and ORP voltage.
- Metering of biocides, based on time or measured values.





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## Treatment of cooling water in evaporation cooling systems

#### **Technical Data**

with digital sensor CTFS at input A and B and via serial module D1: 0.1 - 10 mS/cm           via conductivity module L3 depending on sensor used (LMP, LFT): 50 µ3/cm - 20 mS/cm           Via mA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm           Via mA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm           Via mA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm           Via MA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm           Via MA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm           Via MA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm           Via MA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm           Via MA module AA with the inductive conductivity sensors           Via MA module AA with the inductive conductivity sensors           Via MA module AA with the inductive conductivity sensors           Via MA module AA with the inductive conductivity sensors           Via MA module AA with the inductive conductivity sensors           Via MA module AA with the inductive conductivity sensors           Via MA module AA with the inductive conductivity sensors           Via MA module AA with the inductive conductivity sensors           Via MA module AA with the inductive conductivity sensors           Via MA module AA with the inductive conductivity sensors           Via MA module	Measuring range	Conductivity:
via nA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm, 200 mS/cm         Connection type mV:         pH: 0.00 14,00         ORP voltage: 1.500 +1.500 mV         Prop of connection mA (amperometric measured variables, measuring ranges according to sensors, 2 ppm, 10 pm):         Chlorine         Chlorine         Chlorine         Properature:         via P1 100/Pt 1000, measuring range 0 150 °C         Resolution         PH: 0.10         ORP voltage: 1 mV         Temperature: 0.1 °C         Amperometric analysis (chlorine etc.): 0.01/0.01 ppm, 0.01 Vol.%0, 0.1 Vol.%0         Temperature: 0.1 °C         Amperometric analysis (chlorine etc.): 0.01/0.01 ppm, 0.01 Vol.%0, 0.1 Vol.%0         Temperature: 0.1 °C         Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%0, 0.1 Vol.%0         Temperature: 0.1 °C         Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%0, 0.1 Vol.%0         Temperature: 0.1 °C         Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%0, 0.1 Vol.%0         Temperature: 0.1 °C         Applies frequency outputs for contact water metric flow switch and pause for locking         Soutput telays acting as changeover contacts, of which S are potential-free and 2 are AC/DC         Applies frequency outputs for contact		with digital sensor CTFS at input A and B and via serial module D1: 0.1 - 10 mS/cm
Connection type mV: 		via conductivity module L3 depending on sensor used (LMP, LFT): 50 µS/cm - 20 mS/cm
pH: 0.014.00ORP voltage: -1,500+1,500 mVPsp of connection mA (amperometric measured variables, measuring ranges according to ensort 2 prin, 10 prin): ChlorineChlorineChlorineChlorine dioxideBromineTemperature: va Pt 100/Pt 1000, measuring range 0 150 °CResolutionPH: 0.01 ORP voltage: 1 mV Temperature: 0.1 °CPaperometric analysis (chlorine etc.): 0.001/0.01 prm, 0.01 Vol.%, 0.1 Vol.%Inputs and outputsSi plug-in module positions for 2-channel plug-in modules according to identity code 4 puise frequency outputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 4 paigtal control inputs for CPTS conductivity sensors and CRS corrosion sensors 5 \$ \$ 10° 0\Resourcedin timpPHO/OPIP (propt resistance > 0.5 x 10° 0\) </th <th></th> <th>via mA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm, 200 mS/cm</th>		via mA module AA with the inductive conductivity sensor ICT: 8 to 2 mS/cm, 20 mS/cm, 200 mS/cm
ORP voltage: -1,500 + 1,500 mV           Ype of connection mA (amperometric measured variables, measuring ranges according by choine           Choine </th <th></th> <th>Connection type mV:</th>		Connection type mV:
Accuracy       Aligned contection mA (amperometric measured variables, measuring ranges according is sensor, 2 ppm, 10 ppm):         Actionine dioxide       Choinine dioxide         Bresolution       Choinine dioxide         Bresolution       Pite 0.01         Amperoture:       No P100, measuring range 0 150 °C         Resolution       ORP voltage: 1 mV         Temperature: 0.1 °C       Amperometric analysis (choine diox) (D, 00, 00, 00, 00, 00, 00, 00, 00, 00, 0		pH: 0,00 14,00
<ul> <li>bisensors, 2 ppm, 10 ppm):</li> <li>Chlorine</li> <li>Chlorine</li></ul>		ORP voltage: - 1,500 + 1,500 mV
Choine dioxideBromineTemperature: via Pt 100/Pt 1000, measuring range 0 150 °CResolutionPH: 0,01ORP voltage: 1 mV Temperature: 0.1 °C Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%, 0.1 Vol.%Inputs and outputs8 plug-in module positions for 2-channel plug-in modules according to identity code 1 mA input for any analogue signals 5 output relays acting as changeover contacts, of which 3 are potential-free and 2 are AC/DC 4 pulse frequency outputs for controlling metering pumps 		
Brownie         Brownie           Temperature:         via P100/P1000, measuring range 0 150 °C           Resolution         H <sup>1</sup> , 0,1           ORP voltage: 1 mV         Temperature: 0.1 °C           Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%, 0.1 Vol.%         Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%, 0.1 Vol.%           Inputs and outputs         S plug-in module positions for 2-channel plug-in modules according to identity code           1 mA input for any analogue signals         Soutput relays acting as changeover controlling metering pumps           2 serial sensor inputs for CPTS conductivity sensors and CPRs corrosion sensors         Adjutal control inputs for controlling metering pumps           2 serial sensor inputs for CPTS conductivity sensors and CPRs corrosion sensors         Adjutal control inputs for control Soutputs           Resurement input         PI/OPRP (input resistance > 0.5 x 10° Ω)           Temperature compensation         P100 vOrt           Control Amateristic         9/100 or pH           Eletrical connection         0253V, 50/60 Hz, 25 VA, 24 V DC           Field bus connection         0253V, 50/60 Hz, 25 VA, 24 V DC           Field bus connection         Malmounted: IP 67           Exotrad approvals         Colf (rus se indicos or with a protective enclosure)           Field bus connectin         Wall-mounted: IP 67		Chlorine
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via P 100/Pt 1000, measuring range 0 150 °C           Resolution         pH: 0,01 ORP voltage: 1 mV Temperature: 0.1 °C Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%, 0.1 Vol.%           Inputs and outputs         8 plug-in module positions for 2-channel plug-in modules according to identity code 1 mA input for any analogue signals 5 output relays acting as changeover contacts, of which 3 are potential-free and 2 are AC/DC 4 pulse frequency outputs for controlling metering pumps 2 serial sensor inputs for CPTS conductivity sensors and CPS corrosion sensors 8 digital control inputs for contact water meter, flow switch and pause for locking           Accuracy         0.3 % based on the full-scale reading           Measurement input         pH/ORP (input resistance > 0.5 x 10° Ω)           Temperature correction range         0100 °C           Control characteristic         P/PID control           Held bus connection         90 - 253V, 50/K0 Hz, 25VA, 24V DC           Field bus connection         050 °C (or use indoors or with a protective enclosure)           Ambient temperature         050 °C (or use indoors or with a protective enclosure)           Field sus connection         050 °C (or use indoors or with a protective enclosure)           Field sus connection         050 °C (or use indoors or with a protective enclosure)           Field sus connection         050 °C (or use indoors or with a protective enclosure)           Field bus connection         050 °C (or use indoors or with a protective		Bromine
ResolutionpH: 0,01 ORP voltage: 1 mV Temperature: 0.1 °C Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%, 0.1 Vol.%Inputs and outputs3 plug-in module positions for 2-channel plug-in modules according to identity code 1 mA input for any analogue signals 5 output relays acting as changeover contacts, of which 3 are potential-free and 2 are AC/DC 4 pulse frequency outputs for controlling metering pumps 2 serial sensor inputs for CFTS conductivity sensors and CRS corrosion sensors 8 digital control inputs for contact water meter, flow switch and pause for lockingAccuracy0.3 % based on the full-scale readingMeasurement inputpH/ORP (input resistance > 0.5 x 10° Ω)Temperature correction range0100 °CControl characteristicP/PID controlPield bus connection90 - 253 V, 50/60 Hz, 25 VA, 24 V DCField bus connection050 °C (for use indoors or with a protective enclosure)Enclosure rating050 °C (for use indoors or with a protective enclosure)Enclosure ratingCE, MET (corresponding to UL as per IEC 61010)Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm		Temperature:
ORP voltage: 1 mVTemperature: 0.1 °CAmperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%, 0.1 Vol.%Inputs and outputs3 plug-in module positions for 2-channel plug-in modules according to identity code1 mA input for any analogue signals5 output relays acting as changeover contacts, of which 3 are potential-free and 2 are AC/DC4 pulse frequency outputs for controlling metering pumps2 serial sensor inputs for CFTS conductivity sensors and CRS corrosion sensors8 digital control inputs for contact water meter, flow switch and pause for lockingMeasurement inputpH/ORP (input resistance > 0.5 x 10° Ω)Temperature correction range0 100 °CControl characteristicP/PID controlElectrical connection90 - 253V, 50/60 Hz, 25VA, 24V DCField bus connectionModus RTU, additional field buses via gatewayAmbient temperature0 50 °C (for use indoors or with a protective enclosure)Enclosure ratingWall-mounted: IP 67Tests and approvalsCE, MET (corresponding to UL as per IEC 61010)Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm		via Pt 100/Pt 1000, measuring range 0 150 °C
Temperature: 0.1 °C Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%, 0.1 Vol.%Inputs and outputs3 plug-in module positions for 2-channel plug-in modules according to identity code 1 mA input for any analogue signals 5 output relays acting as changeover contacts, of which 3 are potential-free and 2 are AC/DC 4 pulse frequency outputs for controlling metering pumps 2 serial sensor inputs for CFTS conductivity sensors and CRS corrosion sensors 8 digital control inputs for contact water meter, flow switch and pause for lockingAccuracy0.3 % based on the full-scale readingMeasurement inputpH/ORP (input resistance > 0.5 x 10° Ω)Temperature compensationPt 100/Pt 1000 for pHTemperature correction range0 100 °CControl characteristic9/-2S3 V, 50/60 Hz, 25 VA, 24 V DCField bus connectionModbus RTU, additional field buses via gatewayAmbient temperature0 50 °C (for use indoors or with a protective enclosure)Enclosure ratingVall-mounted: IP 67Tests and approvalsCE, MET (corresponding to UL as per IEC 61010)Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm	Resolution	pH: 0,01
Amperometric analysis (chlorine etc.): 0.001/0.01 ppm, 0.01 Vol.%, 0.1 Vol.%Inputs and outputs3 plug-in module positions for 2-channel plug-in modules according to identity code1 mA input for any analogue signals5 output relays acting as changeover contacts, of which 3 are potential-free and 2 are AC/DC4 pulse frequency outputs for cortrolling metering pumps2 serial sensor inputs for CFTS conductivity sensors and CRS corrosion sensors8 digital control inputs for cortact water meter, flow switch and pause for lockingAccuracy0.3 % based on the full-scale readingMeasurement inputpH/ORP (input resistance > 0.5 x 10° Ω)Temperature correction range0 100 °CControl characteristicP/PID controlElectrical connection90 - 253 V, 50/60 Hz, 25 VA, 24 V DCField bus connectionModbus RTU, additional field buses via gatewayAmbient temperature0 50 °C (for use indoors or with a protective enclosure)Enclosure ratingVall-mounted: IP 67Tests and approvalsCE, MET (corresponding to UL as per IEC 61010)Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm		ORP voltage: 1 mV
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4 pulse frequency outputs for controlling metering pumps2 serial sensor inputs for CFTS conductivity sensors and CRS corrosion sensors8 digital control inputs for contact water meter, flow switch and pause for lockingAccuracy0.3 % based on the full-scale readingMeasurement inputpH/ORP (input resistance > 0.5 x 10 <sup>i2</sup> Ω)Temperature compensationPt 100/Pt 1000 for pHTemperature correction range0 100 °CControl characteristicP/PID controlElectrical connection90 - 253 V, 50/60 Hz, 25 VA, 24 V DCField bus connectionModbus RTU, additional field buses via gatewayAmbient temperature0 50 °C (for use indoors or with a protective enclosure)Enclosure ratingVall-mounted: IP 67Tests and approvalsCE, MET (corresponding to UL as per IEC 61010)Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm		1 mA input for any analogue signals
2 serial sensor inputs for CFTS conductivity sensors and CRS corrosion sensors 8 digital control inputs for contact water meter, flow switch and pause for lockingAccuracy0.3 % based on the full-scale readingMeasurement inputpH/ORP (input resistance > 0.5 x 10 <sup>i2</sup> Ω)Temperature compensationPt 100/Pt 1000 for pHTemperature correction range0 100 °CControl characteristicP/PID controlElectrical connection90 - 253 V, 50/60 Hz, 25 VA, 24 V DCField bus connectionModbus RTU, additional field buses via gatewayAmbient temperature0 50 °C (for use indoors or with a protective enclosure)Enclosure ratingWall-mounted: IP 67Tests and approvalsCE, MET (corresponding to UL as per IEC 61010)Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm		5 output relays acting as changeover contacts, of which 3 are potential-free and 2 are AC/DC
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Temperature compensationPt 100/Pt 1000 for pHTemperature correction range0 100 °CControl characteristicP/PID controlElectrical connection90 – 253 V, 50/60 Hz, 25 VA, 24 V DCField bus connectionModbus RTU, additional field buses via gatewayAmbient temperature0 50 °C (for use indoors or with a protective enclosure)Enclosure ratingWall-mounted: IP 67Tests and approvalsCE, MET (corresponding to UL as per IEC 61010)Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm	Accuracy	0.3 % based on the full-scale reading
Temperature correction range0 100 °CControl characteristicP/PID controlElectrical connection90 – 253 V, 50/60 Hz, 25 VA, 24 V DCField bus connectionModbus RTU, additional field buses via gatewayAmbient temperature0 50 °C (for use indoors or with a protective enclosure)Enclosure ratingWall-mounted: IP 67Tests and approvalsCE, MET (corresponding to UL as per IEC 61010)Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm	Measurement input	pH/ORP (input resistance > 0.5 x $10^{12} \Omega$ )
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Ambient temperature0 50 °C (for use indoors or with a protective enclosure)Enclosure ratingWall-mounted: IP 67Tests and approvalsCE, MET (corresponding to UL as per IEC 61010)Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm	Electrical connection	90 – 253 V, 50/60 Hz, 25 VA, 24 V DC
Enclosure ratingWall-mounted: IP 67Tests and approvalsCE, MET (corresponding to UL as per IEC 61010)Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm	Field bus connection	Modbus RTU, additional field buses via gateway
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 240 x 360 x 110 mm	Ambient temperature	0 50 °C (for use indoors or with a protective enclosure)
Housing materialPPE with flame-proof finishDimensionsH x W x D 240 x 360 x 110 mm	Enclosure rating	Wall-mounted: IP 67
Dimensions         H x W x D 240 x 360 x 110 mm	Tests and approvals	CE, MET (corresponding to UL as per IEC 61010)
	Housing material	PPE with flame-proof finish
Climate Permissible relative humidity: 95 %, non-condensing DIN IEC 60068 –2-30	Dimensions	H x W x D 240 x 360 x 110 mm
	Climate	Permissible relative humidity: 95 %, non-condensing DIN IEC 60068 –2-30

#### **DESCRIPTION OF MODULES**

#### Module AA mA/mA sensor input (slot 1-3):

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

#### Module V2 mV/mV temperature sensor input (slot 2-3):

 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 1-3):

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 1-3):

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

#### Module V1 mV/temperature + mA module (slot 2-3):

- 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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