

Thermo Scientific AquaSensors
AnalogPlus series for challenging
process applications

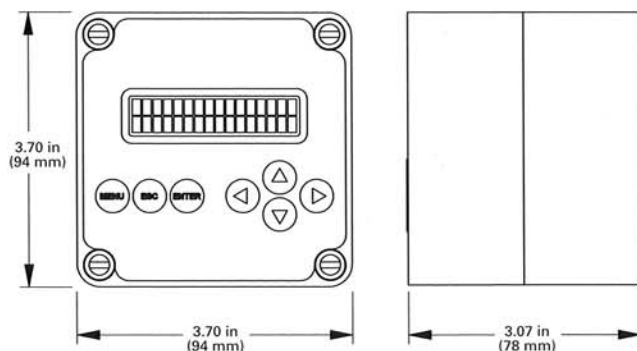
Product Specifications

Thermo Scientific AquaSensors AV88 AnalogPlus Universal Analyzer



AV88 AnalogPlus™ Universal Analyzer

- Connects to any AnalogPlus sensor using plug-in module
- Convenient ¼ DIN enclosure
- Display sensor and temperature data
- Menu functions: Calibration, configuration and diagnostics
- Digital protocol options for remote measurement, calibration, configuration and diagnostics
- Two 4 to 20 mA current outputs
- Two Form C relays for alarm, control and wash
- PID controller for use with pH and conductivity
- 7 conduit knockouts for easy cabling



AV88 Universal Analyzer Module Mounted to Enclosure with NEMA 4X Seal
¼ DIN, Dimensions in Inches (mm)

AV88 AnalogPlus Universal Analyzer Shown with NEMA
4X Enclosure.

Features and Benefits

Mounting Options

- Enclosure, NEMA 4X
- ½ DIN NEMA 4X panel mount
- Display only with NEMA 4X gasket

Interface

- **Display:** 2 line by 16 character LCD
- **Backlight:** High contrast green
- **Keypad:** 4 directional arrows, MENU, ESCAPE and ENTER

Environmental Conditions

- **Ambient Operating Temperature Range:** -20 to 65 °C
- **Maximum Relative Humidity:** 95% non-condensing
- Meets CE requirements for heavy industrial use

Thermo Scientific AquaSensors AV88 AnalogPlus Universal Analyzer

- Global support — with experience that comes from supporting our customers for over 35 years throughout the world, our water quality specialists and customer support teams offer a quick, thorough and professional response to any problem encountered.
- Focus on user benefits — we work closely with you to define your needs, and ensure you are using the monitor in a way that improves your bottom line. For more information, contact your local water quality specialists or visit www.thermo.com/processwater.

AV88 AnalogPlus Universal Analyzer Specifications

Mounting Options	<p>Wall-mount Enclosure: NEMA 4X</p> <p>Panel-mount: ¼ or ½ DIN NEMA 4X panel mount available</p> <p>Display Only: with NEMA 4X gasket</p>
User Interface	<p>Display: 2 line by 16 character LCD</p> <p>Backlight: High contrast green</p> <p>Keypad: 4 directional arrows, MENU, ESCAPE and ENTER</p>
Environmental Conditions	<p>Ambient Operating Temperature Range: -20 to 65 °C</p> <p>Maximum Relative Humidity: 95% non-condensing</p>
Interchangeable Sensor Modules	<p>A 1-inch long personality module plugs in to the AV88 to make it work with any AnalogPlus sensor configured with a PT1000 temperature element</p> <p>Supported Sensors: pH, ORP, two electrode conductivity, two electrode resistivity, toroidal conductivity, dissolved oxygen and dissolved ozone</p>
4 to 20 Milliamp Current Output Options	<p>Two isolated outputs (standard)</p> <p>Assignable parameters</p> <p>PID function when pH or conductivity parameter selected</p> <p>Loop power provided by AV88</p>
Relays	<p>Two 1 amp Form C relays with NO and NC contacts</p> <p>Assignable parameters</p> <p>Configured for alarm, control and timer functions</p>
Digital Communications	<p>Options to Host Computer Network: MODBUS® RTU, DeviceNet, Modbus RS232, RS232 ASCII, CANopen, Ethernet IP, Modbus TCP, TCP/IP</p> <p>Others: Consult factory</p>
Power Supply	<p>Input: 10 to 30 VDC or 100 to 240 VAC (optional)</p> <p>Power: 2W at 25°C</p>
Approvals	<p>Meets CE requirements for heavy industrial use</p>

Ordering Information

Part No.	Description
AV88-v-w-x-y-z	Universal Analyzer
Measurement Parameter (v)	<p>A = pH</p> <p>B = ORP</p> <p>C = Conductivity</p> <p>D = Resistivity</p> <p>E = Toroidal Conductivity</p> <p>F = Dissolved Oxygen (ppm)</p> <p>G = Dissolved Ozone</p>
Enclosure (w)	B = ¼ DIN NEMA 4X Wall-mount Enclosure
Communications (x)	<p>0 = None</p> <p>1 = RS232 ASCII</p> <p>2 = Modbus RS232</p> <p>4 = MODBUS RTU (for Modbus + Profibus)</p> <p>5 = DeviceNet</p> <p>6 = CANopen</p> <p>7 = Ethernet IP, Modbus TCP, TCP/IP</p>
Relays (y)	<p>A = None</p> <p>C = Two</p>
Power (z)	<p>1 = 24 VDC</p> <p>2 = 100 to 240 VAC</p>

Consult factory for additional configurations and accessories.

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S-ASAV88-E 1108 RevA

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