Thermo Scientific
AquaSensors AV88

AnalogPlus Universal Analyzer

Thermo Scientific™ AquaSensors AnalogPlus™ series for challenging process applications.

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 AnalogPlus Universal Analyzer Shown with NEMA 4X Enclosure

Features and Benefits

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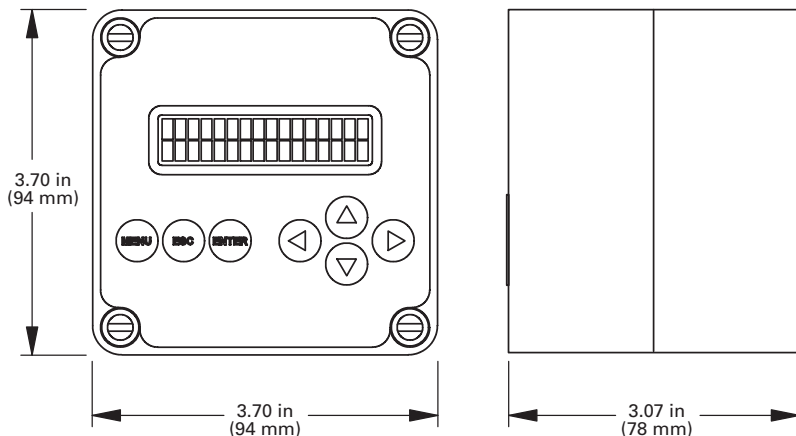- Display only with NEMA 4X gasket

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

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

3.70 in (94 mm)

3.70 in (94 mm)

3.07 in (78 mm)

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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.thermoscientific.com/processwater.

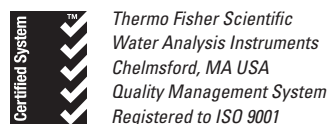### AV88 AnalogPlus Universal Analyzer Specifications

Mounting Options	**Wall-Mount Enclosure:** NEMA 4X **Panel-Mount:** ¼ or ½ DIN NEMA 4X panel mount available **Display Only:** With NEMA 4X gasket
User Interface	**Display:** 2 line by 16 character LCD **Backlight:** High contrast green **Keypad:** 4 directional arrows, MENU, ESCAPE and ENTER
Environment Conditions	**Ambient Operating Temperature Range:** -20 to 65 °C **Maximum Relative Humidity:** 95 % non-condensing
Interchangeable Sensor Modules	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 **Supported Sensors:** pH, ORP, two electrode conductivity, two electrode resistivity, toroidal conductivity, dissolved oxygen and dissolved ozone
4 To 20 Milliamp Current Output Options	Two isolated outputs (standard) Assignable parameters PID function when pH or conductivity parameter selected Loop power provided by AV88

Relays	Two 1 amp Form C relays with NO and NC contacts Assignable parameters Configured for alarm, control and timer functions
Digital Communications	**Options To Host Computer Network:** Modbus® RTU, DeviceNet™, Modbus RS232, RS232 ASCII, CANopen, Ethernet IP, Modbus TCP, TCP/IP **Others:** Consult factory
Power Supply	**Input:** 10 to 30 VDC or 100 to 240 VAC (optional) **Power:** 2 W at 25 ºC
Approvals	Meets CE requirements for heavy industrial use

AV88 AnalogPlus Universal Analyzer Ordering Information

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

Consult factory for additional configurations and accessories.

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Registered to ISO 9001

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