

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

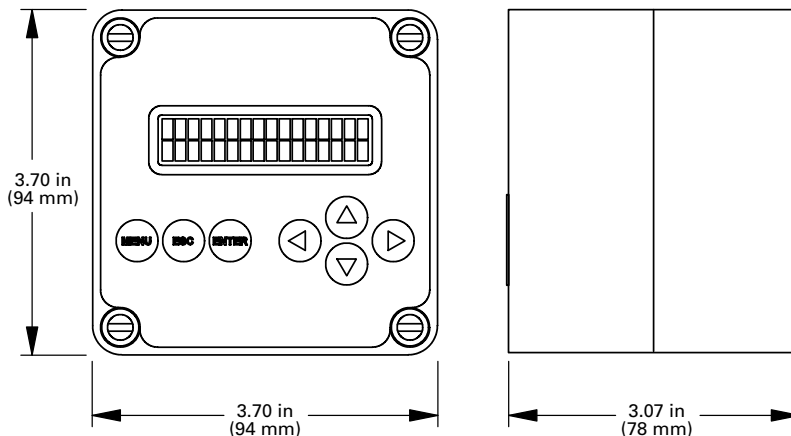
Interface

- 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)



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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 °C
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 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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