**Thermo Scientific AquaSensors
AnalogPlus series for challenging
process applications**

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 AnalogPlus Universal Analyzer Shown with NEMA 4X Enclosure.

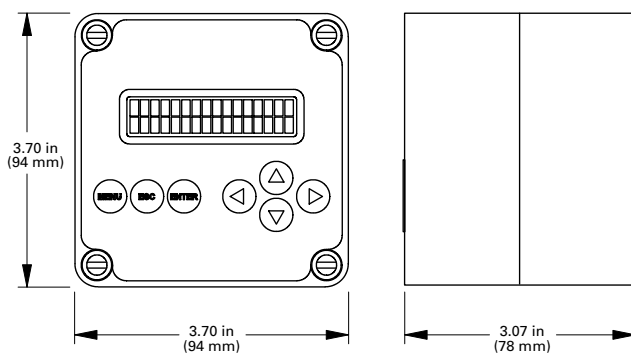### Features and Benefits

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

3.70 in (94 mm)

3.70 in (94 mm)

3.07 in (78 mm)

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.thermo.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
Environmental 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: 2W at 25°C
Approvals	Meets CE requirements for heavy industrial use

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.

Registered Quality System
ISO
9001:2000

CE

S-ASAV88-E 1108 RevA

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