

## Thermo Scientific AquaSensors AV38

### DataStick Local Monitor and Controller

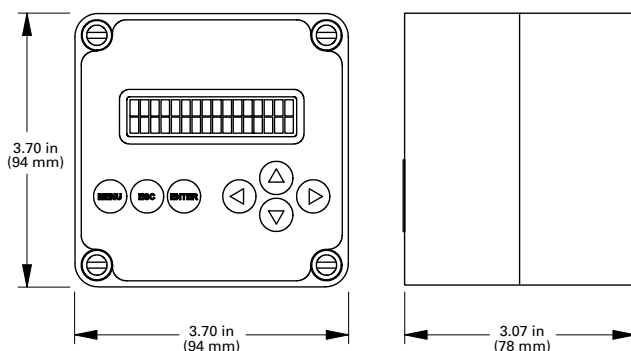


#### AV38 DataStick™ Local Monitor and Controller

- Connects to any DataStick system
- 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



AV38 Display Module Shown with NEMA 4X Enclosure.



AV38 Display Module Mounted to Enclosure with NEMA 4X Seal ¼ DIN,  
Dimensions in Inches (mm)

#### Features and Benefits

##### Mounting Options

- Enclosure, NEMA 4X
- ¼ or 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 AV38 DataStick Local Monitor and Controller

- 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](http://www.thermo.com/processwater).

### AV38 Local Monitor Specifications

<b>Mounting Options</b>	<b>Wall-mount Enclosure:</b> NEMA 4X <b>Panel-mount:</b> ¼ or ½ DIN NEMA 4X panel mount available <b>Display Only:</b> with NEMA 4X Gasket
<b>User Interface</b>	<b>Display:</b> 2 line by 16 character LCD <b>Backlight:</b> High contrast green <b>Keypad:</b> 4 directional arrows, MENU, ESCAPE and ENTER
<b>Environmental Conditions</b>	<b>Ambient Operating Temperature Range:</b> -20 to 65 °C <b>Maximum Relative Humidity:</b> 95% non-condensing
<b>DataStick Sensor Connections</b>	Supports 1 to 255 Modbus® RTU DataStick Sensors of any type <b>Supported Sensors:</b> pH, ORP, two electrode conductivity, two electrode resistivity, toroidal conductivity, dissolved oxygen (ppm and ppb) dissolved ozone, drinking water and wide-range turbidity, suspended solids and free chlorine
<b>4 to 20 Milliamp Current Output Options</b>	Assignable parameters PID function when pH or conductivity parameter selected Loop power provided by AV38
<b>Relays</b>	Two 1 amp Form C relays with NO and NC contacts Assignable parameters Configured for alarm, control and timer functions
<b>Digital Communications</b>	<b>Options to Host Computer Network:</b> MODBUS RTU, DeviceNet, Modbus RS232, RS232 ASCII, CANopen, Ethernet IP, Modbus TCP, TCP/IP <b>Others:</b> Consult factory
<b>Power Supply</b>	<b>Input:</b> 10 to 30 VDC or 100 to 240 VAC (optional) <b>Power:</b> 2W at 25°C
<b>Approvals</b>	Meets CE requirements for heavy industrial use

### AV38 Local Monitor Ordering Information

Part No.	Description
<b>AV38-v-w-x-y-z</b>	<b>Local Monitor/Controller</b>
<b>Current Outputs (v)</b>	<b>B</b> = One <b>C</b> = Two
<b>Mounting (w)</b>	<b>B</b> = ¼ DIN NEMA 4X Wall-mount Enclosure
<b>Communications (x)</b>	<b>0</b> = None <b>1</b> = RS232 ASCII <b>2</b> = Modbus RS232 <b>4</b> = MODBUS RTU (for Modbus + Profibus) <b>5</b> = DeviceNet <b>6</b> = CANopen <b>7</b> = Ethernet IP, Modbus TCP, TCP/IP
<b>Relays (y)</b>	<b>A</b> = None <b>C</b> = Two
<b>Power (z)</b>	<b>1</b> = 24 VDC <b>2</b> = 100 to 240 VAC

Consult factory for additional configurations and accessories.

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Environmental Instruments  
Water Analysis Instruments

**North America**  
166 Cummings Center  
Beverly, MA 01915 USA  
Toll Free: 1-800-225-1480  
Tel: 1-978-232-6000  
Dom. Fax: 1-978-232-6015  
Int'l Fax: 978-232-6031

**Europe**  
P.O. Box 254, 3860 AG Nijkerk  
Wallerstraat 125K, 3862 BN  
Nijkerk, Netherlands  
Tel: (31) 033-2463887  
Fax: (31) 033-2460832

**Asia Pacific**  
Blk 55, Ayer Rajah Crescent  
#04-16/24, Singapore 139949  
Tel: 65-6778-6876  
Fax: 65-6773-0836

[www.thermo.com/water](http://www.thermo.com/water)

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