

## VANTAGE 4400

### Description:

The Eastech Flow Controls Vantage Model 4400 is a transit time ultrasonic flow meter to be used on full pipe applications from 1 inch to 300 inch pipes. The 4400 comes complete with a graphic LCD display for flow, totals (forward), velocity and programmed parameters. The 4400 is enclosed in a NEMA 4, 4X enclosure with viewing window and one 4-20mA DC output, one relay and an RS-232 Modbus™ serial output. The 4400 also has a built-in data logger and software for downloading of stored data.

### Applications:

The Vantage 4400 can be applied to full pipes of water, wastewater and industrial process fluids.

- **Water:** Influent/effluent of WTP, distribution monitoring, billing and water wells.
- **Wastewater:** Lift stations, WWTP influent/effluent, clarifier effluents, clarifier underflows and sludge (RAS, WAS).
- **Industrial Process:** In plant monitoring, transportation lines, HVAC.
- **Irrigation:** Turnouts, aqueduct flows.

### Enclosure:

The Model 4400 comes standard with a NEMA 4, 4X/IP66 enclosure. The enclosure has a hinged viewing window and a separate compartment for wiring. There are three conduit entrances in the bottom of the enclosure for 1/2" conduit fittings. Enclosure options are heater and thermostat for cold weather outdoor use and keylock for the hinged clear cover.

### Sensor Styles:

- Clamp-on Sensors with mounting rails. (V30L, V30S)
- Internal Wetted Sensors (WFF-2, WR-2)
- Thru-Wall Wetted Sensors (HS3 & V20WT Hot Shot)
- Fabricated Spools (WD-1)

*See associated technical brief for sensor specifications.*



### Programming:

The Vantage 4400 is easily calibrated to the user's application data. The 16 button keypad and the menu driven information on the display will allow the user to program or adjust various parameters in the field.

### Programming features:

- Main screen: Flow & total, meter status, signal strength, measurement parameters including Reynolds #.
- Review last 8 days of totals.
- Listing of most pipes and wall schedules for application programming.
- Three programmable relays assignable for high/low alarms, remote totalizer, loss of signal, etc.
- 8 Channel data logger with selectable logging intervals of 1, 5, 10, 15, 30 or 60 minutes.

## FEATURES

- High Accuracy and Reliability
- Fast and Simple Programming
- Sensors for All Types of Pipes
- Internal Data Logger
- 18 Month Warranty

## VANTAGE 4400

### VANTAGE 4400 GENERAL SPECIFICATIONS

#### Enclosure:

Standard: Nema 4, 4X polycarbonate  
 Accessories: Heater and thermostat, Door Lock, Modem

#### TEMPERATURE:

Standard: -4° F to 158° F (-20° C to 70° C)  
 With Heater: -40° F to 158° F (-40° C to 70° C)

#### Electronics:

##### OUTPUTS:

4-20 mA: One analog isolated into 800 ohms max, monitored to detect open circuits. RFI and gas discharge surge protection and two fuses.

Relay Alarms: 1 standard (up to 3), SPDT relay (plug-in) 3.0A @ 120VAC / 24VDC

Serial Ports: 1200-38400 Baud, Slave IDs 1 to 128 RS232 Modbus™ RTU protocol.

DC power Out: 12 VDC, 100 mA maximum

Display: 4 line, 20 character backlit LCD  
 16 button programming keypad

Power: 100 to 240 VAC, 50/60 Hz  
 12 to 28 VDC @ 300mA  
 7.2 watts std. W/heater 23 watts

Power Supply: High immunity: Approvals CE, UL, CSA

Data Logger: Programmable 8 channel with storage of up to 32768 records in non-volatile flash memory. Programmable logging intervals of 1, 5, 10, 15, 30 or 60 minutes.

Daily Summary: Daily summary of the total flows for the past 8 days viewable from display through menu selection.

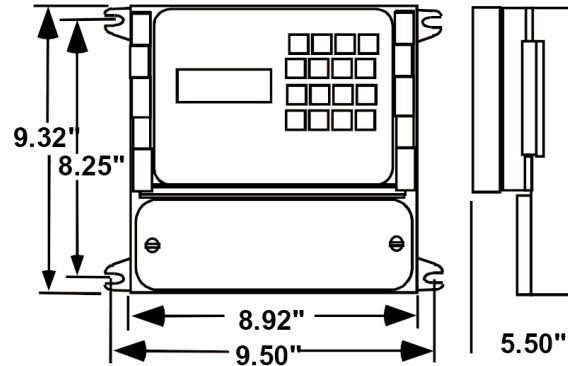
Accuracy: +/- 0.5% of actual flow above 1 FPS

Linearity: +/- 0.25%

Repeatability: 0.25%

Turndown: 400:1

### Enclosure Mounting Dimensions



### Graphic Display

Flow **1453** GPM  
 FwdT **1234** GAL  
 x100  
 Velocity **2.48** FPS  
 Status - Okay

### Wiring Diagram

