Description:

The Eastech Flow Controls Vantage Model 2210 is a dual channel ultrasonic level meter that can be programmed either for level and/or flow applications. The flow applications will include flumes, weirs or free flow equations.

The Vantage 2210 comes with a backlit LCD display, front panel programming keypad one 4-20 mA outputs, RS232 serial port, up to five programmable relays and an internal data logger. The 2210 is housed in a NEMA 4X enclosure with viewing window.

Applications:

The Vantage 2210 can be applied to open channel flow measurement or fluid level measurement of water, wastewater or industrial process fluids.

• **As Flow Meter**: Dual influent/effluent of wastewater treatment plants, industrial effluent flows or any open channel flows in association with flumes or weirs.

• **As Level Meter**: Dual water tanks, chemical tanks or wet wells for level measurement up to 50 feet.

Enclosure:

The Vantage 2210 comes standard with a NEMA 4, 4X/IP66 polycarbonate enclosure. The enclosure has a hinged viewing window and a separate access panel for wiring connections. There are three 1/2" conduit entrances at the bottom of the enclosure for wiring. Enclosure options are heater and thermostat and key lock for the hinged clear cover.

Sensor Styles:

• FB2, range 0-16ft, material Tefzel®
• FB5, range 0-25ft, glass filled polyester
• FB5X, range 0-25ft, glass filled polyester
• FB3, range 0-50ft, material ABS Plastic

See FB Ultrasonic Sensor Technical Brief for more detailed information.

Programming:

The Vantage 2210 is easily programmed to the user's application data. The 16 button keypad and the drill down menu selection allow the user to program or adjust various parameters in the field. Some of the programming features are:

• Selection of using one or two sensors for level and/or flow applications.
• Selection of 70 stored flume and weir equations.
• Selection of 5 level units and 15 flow units.
• Selection of baud rate and up to 128 slave IDs for the RS232 serial communication port.
• Selection of the output response time.
• Programming of relay assignments.
• Programming of data logger channels and logging intervals.
• Selection of information to be displayed on the 4 line 2 page main display screen.

FEATURES

• **Fast and Simple Programming**
• **Single or Dual Sensor Operation**
• **Multiple Sensor Options**

• **High Accuracy and Reliability**
• **Internal Data Logger**
• **18 Month Warranty**

EASTECH

VANTAGE 2210 GENERAL SPECIFICATIONS

Enclosure:

Standard:	Nema 4X, 4X polycarbonate
Optional:	Explosion proof, Aluminum, Class I, Grps. C & D, Class II, Grps. E,F,G Div. 1 & 2
Accessories:	Heater and thermostat, Door Lock, Modem at 14400 baud rate
TEMPERATURE:	
Standard:	-4º to 158º F (-20º to 70º C)
With Heater:	-40º to 158º F (-40º to 70º C)

Electronics:

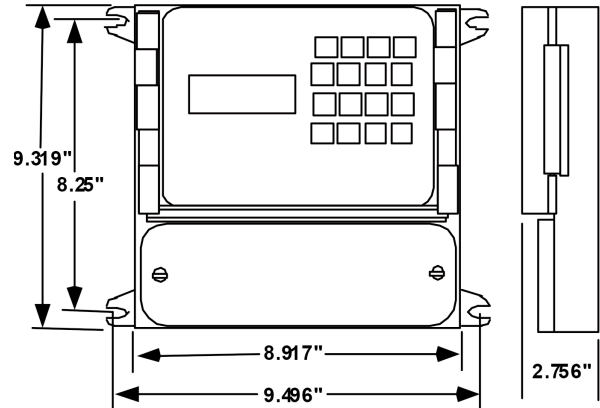|	
OUTPUTS:	
4-20mADC:	Single analog isolated into 1000 ohms maximum, monitored to detect open circuits. RFI and gas discharge surge protection and two fuses per channel.
Relay Alarms:	Up to 5 optional relays. SPDT relays (plug-in). Rated at 3.0A @ 120VAC / 24VDC
Serial Ports:	1200-38400 Baud, Slave IDs 1 to 128 RS232 Modbus™ RTU Protocol.
DC Power Out:	12VDC. 100mA maximum
Display:	4 line, 20 character backlit LCD 16 button programming keypad
Power:	90 to 240 VAC, 50/60 Hz 12 to 24 VDC @ 200mA 4.8 watts std. W/heater 22 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 past 8 days viewable from display through menu selection.
Accuracy:	With FB5 sensor: .02" or 0.05% of target distance, whichever is greater. With FB3 sensor: 0.1" or 0.1% of target distance, whichever is greater.

Enclosure Mounting Dimensions

Backlit Display


```
Flw1          1000            GPM
Totl 1     123456 X1000      GAL
Lev 1         3.45
10/3/02    09:48
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Wiring Diagram