

F6700/F6750 and F6600/F6650

DESCRIPTION

Flo-tech digital displays are designed for use with Flo-tech Activa, Ultima and Classic Flow Meters, but can be used with any frequency or analog output flow meter. The displays are powered by an AC or DC power source, and can be configured with a variety of communication protocols and units of measure. Basic functions include flow, temperature and pressure indication, totalization, alarm processing, and process control.

In addition to flow rate frequency signals derived from meter, the F6600/F6650 models accept inputs from switch contacts and outputs from CMOS or TTL circuits. These displays provide 6 different indications including counter A, counter B, counter C, rate, rate maximum, and rate minimum. Annunciators indicate which variable is being displayed.

FEATURES

F6700/F6750

- AC or DC power
- Five digit rate and total display
- 4...20 mA or 0...10V DC input
- Built-in transmitter power supply
- Three expansion card slots
- NEMA 4X/IP 65 rated enclosure
- CE compliant

F6600/F6650

- AC or DC power
- Six digit rate and total display
- Frequency input
- Built-in transmitter power supply
- Three expansion card slots
- NEMA 4X/IP 65 rated enclosure
- **CE** compliant



APPLICATIONS

Flo-tech digital displays are suitable for several flow metering applications where remote flow monitoring is required. Typical applications include:

- · Hydraulic diagnostics, monitoring and test stands
- · Mobile construction and marine equipment
- · General industrial processes

PROGRAMMING

When ordered with a flow meter, flow meter data is configured and programmed at the factory. Replacement units can be programmed in the field via the front panel display, or at the factory if the flow meter serial number is provided.



Product Data Sheet

OPERATION

Frequency or analog output signals generated from a flow metering device are interpreted by the display, and then calculated to provide a volumetric flow rate based on the flow meter properties. Flow rate units are scaled based on the configuration of the display. For flow sensor arrays that are configured with an additional pressure and/or temperature sensors, the digital displays have available inputs to accept and display these parameters.

Flow rate, pressure and temperature readings can be transmitted through the various communication protocols.

ADDITIONAL PRODUCTS

Part Number	Description	Use
F6542	Form C relay module	The optional plug-in card requires customer installation and setup. Use this feature with a display that includes a serial communication card (RS-232 or EIA-485).
F5140	K-factor scaler	Must be used with Flo-tech flow meters configured with frequency output and sizes SAE 8, G1/4 or equivalent.

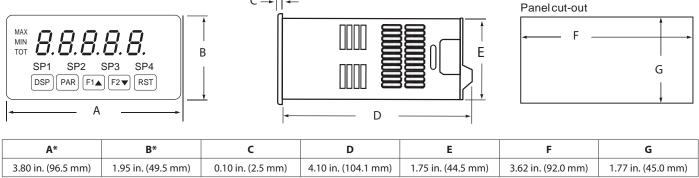
NOTE: For additional set point alarm options, consult the factory.

Expansion Cards

Analog Output	A linear DC output signal card can be set up to provide a 420 mA, 020 mA or 010V DC signals and can be scaled independ of the input range.	
Communication	Communication Optional plug-in cards to facilitate digital communications. See "Model Number" on page 4 for options.	
Setpoint Alarms	Setpoint Alarms Select from dual FORM-C relays (5 Amp), Quad Form-A relays (3 Amp) or either sinking or sourcing quad open collector logic	

NOTE: The analog output and communication cards will be installed at the factory at the time of order. They may be installed at a later date if ordered separately. The setpoint alarm cards are available for customer installation and configuration only.

DIMENSIONS



^{*}F6700/F6750 is shown, dimensions are the same for F6600/F6650

SPECIFICATIONS

F6700/F6750

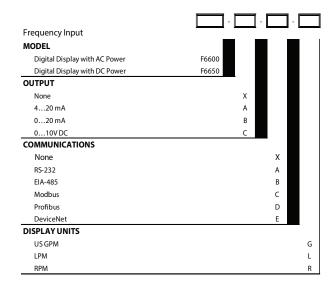
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Display	5-digit, 0.56 in. sunlight-readable red LED		
Power	AC	85250V AC, 50/60 Hz, 15 VA	
Power	DC	1136V DC, 11 W	
A/D Converter	16-bit resolution		
A/D Conversion Rate	20 readings/sec		
Display Update Rate	120 updates/sec		
Sensor Inputs	420 mA or 010V DC		
Transmitter Power	24V DC, ±5%, regulated 50 mA max		
Totalizer Time Base	Second, minute, hour or day		
Total	9 digits, display alternates between high order and low order readouts		
Linearization Data Point Pairs	Selectable from 216		
Operating Temperature	32122° F (050° C); 32113° F (045° C) with all three plug-in cards installed		

F6600/F6650

Display	6-digit, 0.56 in. sunlight-readable red LED		
	Rate	5-digit max, ±0.01% accuracy	
	Counter	8-digit max, >6 digits alternates between high order and low order	
Dower	AC	85250V AC, 50/60 Hz, 18 VA	
Power	DC	1136V DC, 14 W	
Sensor Power	12V DC, ±10%, 100 mA max, short circuit protected		
	Magnetic pickup		
	Frequency Range	0.01 to 34 K Hz	
Inputs	Trigger Sensitivity	80 mV p-p	
	Over Voltage Protected	±40 V peak	
Operating Temperature	32122° F (050° C); 32113° F (045° C) with all three plug-in cards installed		

MODEL NUMBER

Frequency Input



Analog Input

