

MULTIFUNCTION FLOW COMPUTERS

FC-21
Starts at
\$764



FC-21, \$764, shown smaller than actual size.

68 x 138 mm
(2.67 x 5.43) cutout



FC-22
Starts at
\$1076

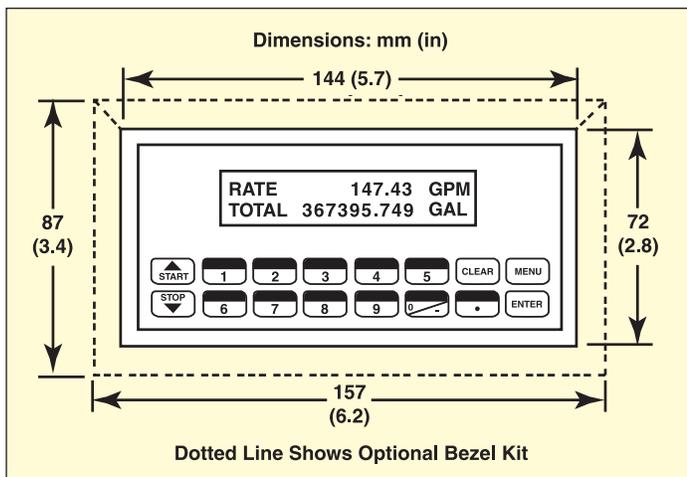


FC-22-V, \$1181, shown smaller than actual size.

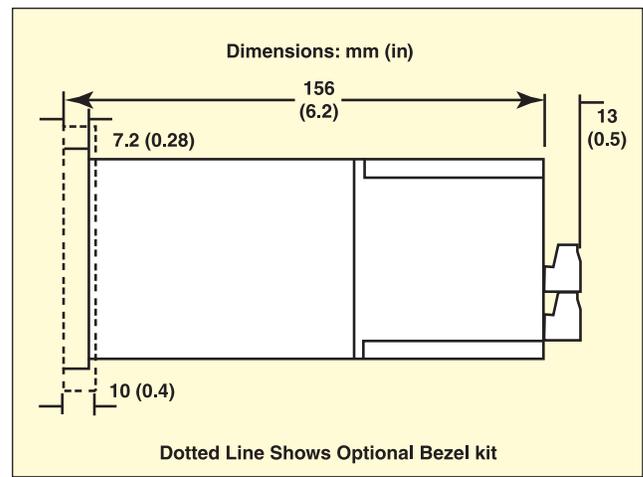
- ✓ Custody Transfer with Audit Trail
- ✓ Liquid, Gas, Steam, and Heat Flow Equations
- ✓ Menu-Selectable Inputs/Outputs
- ✓ Isolated Pulse and Analog Outputs
- ✓ RS232 Communications with Windows Setup Software

OMEGA's FC-21 and FC-22 flow computers are useful in a variety of flowmeter applications. The FC-21 is suitable for liquid batching, volumetric batching, and corrected-volume applications. The FC-22 is designed for liquid, gas, steam, and heat applications. Both models can store multiple flow equations.

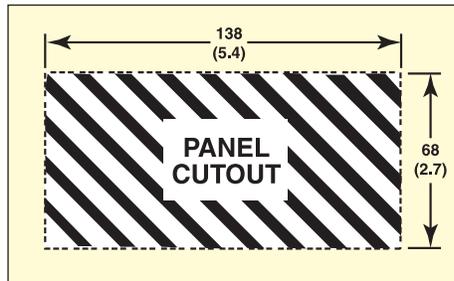
These versatile instruments are programmable from the front panel. During setup, the user can assign inputs and outputs. For example, the isolated analog output can monitor the volume flow, corrected-volume flow, mass flow, temperature, pressure, or density. The RS232 serial port allows for data logging, transaction printing, or connection to a modem for remote meter reading.



FC-21/22 Front Dimensions



FC-21/22 Side Dimensions



FC-21/22 Panel Cutout



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

SPECIFICATIONS

Environmental

Operating Temperature: 0 to 50°C (32 to 122°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

Relative Humidity: 0 to 95%, non-condensing

Display Type: Alphanumeric, 2 lines, 7.6 mm (0.3") characters, backlit LCD or VFD (specify at time of order)

Mounting: Panel, wall mount

Power Supply:

FC-21: 110, 220 Vac standard; 12 or 24 Vdc optional

FC-22: 85 to 275 Vac standard; 24 Vdc optional

Signal Inputs

Pulse:

High-Level Pulse:

Low = 0 to 1 Vdc; high = 3 to 30 Vdc

Low-Level Pulse:

10 mV or 100 mV (magnetic pickup)

Frequency: Up to 20 kHz

Analog

Voltage: 0 to 10 Vdc, 0 to 5 Vdc, 1 to 5 Vdc (FC-21 only)

Current: 4 to 20 mA, 0 to 20 mA

Temperature Input

RTD: 100 Ω DIN RTD

Auxiliary/Compensation:

FC-21: Temperature, density

FC-22: 2 temperature, pressure, density

Excitation Voltage:

FC-21: Programmable—5 Vdc, 12 Vdc or 24 Vdc @ 100 mA,

FC-22: Fixed @ 24 Vdc

Relays: Menu assignable for each relay; 2 SPDT relays rated 5 A, 240 Vac or 30 Vdc; Contact Flow Engineering for additional information

Isolated Output: Menu assignable

Analog: 4 to 20 mA; 1000 Ω max load

Pulse: Open collector; 24 Vdc (FC-22 only)

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
FC-21	\$764	Multifunction flow computer for liquid applications
FC-22	1076	Multifunction flow computer for liquid, gas, steam, and heat applications
FC-21-V	866	Multifunction flow computer with VFD display
FC-22-V	1181	Multifunction flow computer with VFD display
FC-21-NEMA	949	Flow computer with NEMA 4 (IP65) wall mount
FC-22-NEMA	1264	Flow computer with NEMA 4 (IP65) wall mount
FC-21-EXP	1606	Flow computer factory mounted inside explosion-proof box (no button access)
FC-22-EXP	1921	Flow computer factory mounted in explosion-proof box (no button access)

Options

Suffix	Price	Description
-220VAC	N/C	220 Vac power option (optional for model FC-21, 85 to 275 Vac power standard on model FC-22)
-12VDC	N/C	12 Vdc power option (available for FC-21 only)
-24VDC	N/C	24 Vdc power option
-RS485	211	RS485 serial connector

Comes complete with operator's manual.

Ordering Examples: FC-21, multifunction flow computer for liquid applications, **\$764.**

OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years, **(\$193), \$764 + 193 = \$957.**

FC-22, multifunction flow computers for liquid, gas, steam and heat applications, **\$1076.**

Recommended Reference Book: Incompressible Flow Turbomachines, **FW-320, \$80.** See Section Y for Additional Books



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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters