

TWO MULTIFUNCTION FLOW COMPUTERS



- ✓ Custody Transfer with Audit Trail
- ✓ Liquid, Gas, Steam, and Heat Flow Equations
- ✓ Menu Selectable Hardware Inputs/Outputs
- ✓ Isolated Pulse and Analog Outputs Standard
- ✓ RS-232 Port Standard
- ✓ Windows Setup Software

The new Model FC-21 multifunction batcher and the Model FC-22 flow computer satisfy instrument requirements for a variety of flow meter applications. The Model FC-21 flow computer is suitable for liquid batching, volumetric batching, and corrected volume applications. The Model FC-22 was designed for liquid, gas, steam, and heat applications. Multiple flow equations are stored in both models.

These versatile flow computers are user programmable from the front panel. The user assigns hardware inputs and outputs to suit the particular application during setup. Isolated analog output can be chosen to follow the volume flow, corrected volume flow, mass flow, temperature, pressure or density by means of menu selection. The standard RS-232 serial port for datalogging, transaction printing, or for connection to a modem for remote meter reading can also be assigned by this method.

Model FC-21 and FC-22 Flow Computer Specifications

Environmental:

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

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

Humidity: 0-95% Non condensing

Display:

Type: Alphanumeric 2 lines 20, 7.6 mm (0.3") character Backlit LCD or VFD (specify at time of order).



Model FC-21



Model FC-22

Mounting:

Panel, wall mount
Panel Cutout: (138 W x 68 H x 156 mm D (5.43 x 2.68 x 6.15"))

Power Supply:

FC-21; 110, 220 Vac, 12 or 24 Vac (standard) optional
FC-22; 85 - 275 Vac, standard; 24 Vdc, optional

Signal inputs:

Pulse: High level Pulse: Low = 0-1 Vdc; High = 3-30 Vdc
Low Level Pulse : 10 mV or 100 mV (mag pickup)

Frequency: up to 20 kHz

Analog

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

Current: 4-20 mA, 0-20 mA

Temperature Input:

RTD: 100 Ohm DIN RTD

Auxiliary/Compensation:

FC-21: Temperature, Density

FC-22: 2 Temperatures, Pressure, Density

Excitation Voltage:

FC-21 Programmable; 5 Vdc, 12 Vdc or 24 Vdc @ 100 mA, FC-22; Fixed @ 24 Vdc

Relays: Menu assignable individually for each relay 2 SPDT (4 optional) on FC-21, 3 optional on FC-22, 5 amp, 240 Vac or 30 Vdc.

Note: RS-232 multidrop not available with 4 relay version. Solid State relay optional.

Isolated Output: Menu assignable

Analog: 4-20 mA; 1000 Ohm max load

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

To Order (Specify Model Number)

Model No.	Description
FC-21	Multifunction flow computer for liquid applications, LCD display
FC-2	Multifunction flow computer for liquids, gases, steam, and heat applications, LCD display
FC-21	Multifunction flow computer with VFD display
FC-22-V	Multifunction flow computer with VFD display
FC-21-NEMA	Flow computer with NEMA-4 wall mount
FC-22-NEMA	Flow computer with NEMA-4 wall mount
FC-21-EXP	Flow computer factory mounted inside explosion-proof box (No button access)
FC-22-EXP	Flow computer factory mounted in explosion-proof box (No button access)

Ordering Example: FC-21-NEMA-24VDC-SSR, Flow computer with NEMA-4 wall mount, 24 Vdc input power, 2 form "A" solid state relays,

Options

Suffix	Price	Description
-220VAC	N/C	220 Vac power option (required for Model FC-21, std. on Model FC-22)
-12VDC	N/C	12 Vdc power option (FC-21 only)
-24VDC	N/C	24 Vdc power option
-4R		SPDT relays (FC-21 only)
-SSR		2 form A solid state relays (FC-21 only)
-3R		1 SPDT relay (FC-22 only)
-RS485		RS-485 serial connector