M-27

MULTIFUNCTION FLOW COMPUTERS

FC-21

- 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.
COMES COMPLETE WITH OPERATOR'S MANUAL.

ORDERING EXAMPLES:
- FC-21, multifunction flow computer for liquid applications.
- OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years.
- FC-22, multifunction flow computers for liquid, gas, steam, and heat applications.

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

**Extended Warranty Program**

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.

**Options**

<table>
<thead>
<tr>
<th>Suffix</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>-220VAC</td>
<td>220 Vac power option (optional for model FC-21, 85 to 275 Vac power standard on model FC-22)</td>
</tr>
<tr>
<td>-12VDC</td>
<td>12 Vdc power option (available for FC-21 only)</td>
</tr>
<tr>
<td>-24VDC</td>
<td>24 Vdc power option</td>
</tr>
<tr>
<td>-RS485</td>
<td>RS485 serial connector</td>
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</tbody>
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