Features

- EZ Setup Feature Speeds Instrument Setup
- Setup Diskette
- Advanced Batching Features, Including Quick Batching Sequence
- Menu Selectable Hardware Features
- Two Line LCD, OLED or VFD Display
- 0-20mA or 4-20mA Analog Output
- Attractive Wall Mount Enclosure Option
- Isolated Pulse Output Standard
- RS-232 Port Standard, RS-485 Optional
- Advanced Printing Capabilities
- Data Logging & Modem Remote Metering Support
- DIN Enclosure with Two Piece Connectors
- DDE Server & HMI Software Available

Description:

The 926-ST1LE Flow Computer satisfies the instrument requirements for a variety of pulse producing flowmeter types in liquid applications.

The alphanumeric display shows measured and calculated parameters in easy to understand format. Single key direct access to measurements and display scrolling is supported. An EZ Setup feature rapidly guides the user through the basic setup.

The 926-ST1LE can be programmed for rate/total indication or batching. The various pulse inputs and outputs can be "soft" assigned to meet a variety of common application needs. The user "soft selects" the usage of each feature while configuring the instrument. A 0-20mA or 4-20mA analog output is standard.

The user can assign the standard RS-232 Serial Port for data logging, transaction printing, or for connection to a modem for remote meter reading. An optional RS-485 serial port using Modbus RTU protocol is available.

A Service or Test mode is provided to assist the user during start-up system check out by monitoring inputs and exercising outputs. The system setup can also be printed.

Specifications:

Environmental
- Operating Temperature: 0°C to +50°C
- Storage Temperature: -40°C to +85°C
- Humidity: 0-95% Non-condensing
- Materials: U.L. approved

Listing: UL/C-UL Listed (File No. E192404), CE Compliant

Display
- Type: 2 lines of 20 characters
- Types: Backlit LCD, OLED and VFD ordering options
- Character Size: 0.2” nominal
- User programmable label descriptors and units of measure

Keypad
- Keypad Type: Membrane Keypad
- Keypad Rating: Sealed to NEMA4X / IP65
- Number of keys: 16

Enclosure
- Depth behind panel: 6.5” including mating connector
- Type: DIN
- Materials: Plastic, UL94V-0, Flame retardant
- Bezel: Textured per matt finish

Power Input
- The factory equipped power option is internally fused. An internal line to line filter capacitor and MOV are provided for added transient suppression.
- 110 VAC Power Option: 85 to 127 Vrms, 50/60 Hz
- 220 VAC Power Option: 170 to 276 Vrms, 50/60 Hz
- DC Power Option:
  - 12 VDC (10 to 14 VDC)
  - 24 VDC (14 to 28 VDC)

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Flow Inputs:
- Number of Flow Inputs: one (single or quadrature)
- Input Impedance: 10 KΩ nominal
- Pullup Resistance: 10 KΩ to 5 VDC (menu selectable)
- Pull Down Resistance: 10 KΩ to common
- Trigger Level: (menu selectable)
  - High Level Input
    - Logic On: 3 to 30 VDC
    - Logic Off: 0 to 1 VDC
  - Low Level Input (mag pickup)
    - Sensitivity: 10 mV or 100 mV
- Minimum Count Speed: User selectable (as low as 1 pulse/99 seconds)
- Maximum Count Speed: Selectable: 40 Hz, 3000 Hz or 20kHz
- Overvoltage Protection: 50 VDC
- Linearization: Average K or 16 Point linearization with separate forward and reverse tables

Pulse Inputs:
- Number of Pulse Inputs: single or quadrature
- Input Impedance: 10 KΩ nominal
- Pullup Resistance: 10 KΩ to 5 VDC (menu selectable)
- Pull Down Resistance: 10 KΩ to common
- Trigger Level: (menu selectable)
  - High Level Input
    - Logic On: 3 to 30 VDC
    - Logic Off: 0 to 1 VDC
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- Minimum Count Speed: User selectable (as low as 1 pulse/99 seconds)
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- Overvoltage Protection: 50 VDC
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Control Inputs
- Number of Inputs: 3
- Switch Inputs are menu selectable for Start, Stop, Reset, Lock, Inhibit, Alarm Acknowledge, Print or Not Used.
- Control Input Specifications
  - Input Scan Rate: 10 scans per second
  - Logic 1: 4 - 30 VDC
  - Logic 0: 0 - 0.8 VDC
  - Input Impedance: 100 KΩ
- Control Activation:
  - Positive Edge or Pos. Level based on product definition for switch usage.

Excitation Voltage
- Menu Selectable: 5, 12 or 24 VDC @ 100 mA (fault protected)

Data Logging
- The data logger captures print list information to internal storage for approximately 1000 transactions. This information can be used for later uploading or printing. Storage format is selectable for Comma-Carriage Return or Printer formats.

Batching Features
- Quick batching sequence, single or dual stage batching, slow fill, auto-batch restart and batch overrun compensation.

Serial Communication
- The serial port can be used for printing, datalogging, modem connection and communication with a computer.
- RS-232:
  - Device ID: 01-99
  - Baud Rates: 300, 600, 1200, 2400, 4800, 9600, 19200
  - Parity: None, Odd, Even
  - Handshaking: None, Software, Hardware
  - Print Setup: Configurable print list and formatting.
  - Print Out: Custom form length, print headers, print list.
  - Print Initialization: Print on end of batch, key depression, interval, time of day or remote request.
- RS-485: (optional 2nd COM port)
  - Device ID: 01-247
  - Baud Rates: 1200, 2400, 4800, 9600, 19200
  - Parity: None, Odd, Even
  - Protocol: Modbus RTU (Half Duplex)

Relay Outputs
- The relay outputs are menu assignable to (Individually for each relay) Low Rate Alarm, High Rate Alarm, Prewarn Alarm, Preset Alarm or General purpose warning (security).
- Number of relays: 2 (4 optional)
- Contact Style: Form C contacts
- Contact Ratings: 5amp, 240 VAC or 30 VDC

Isolated Pulse output
- The isolated pulse output is assigned to Uncompensated Volume Total.
- Pulse Output Form: Photomos Relay
- Maximum On Current: 25 mA
- Maximum Off Voltage: 30 VDC
- Saturation Voltage: 1.0 VDC
- Maximum Off Current: 0.1 mA
- Pulse Duration: 10 mSec or 100mSec (user selectable)
- Pulse output buffer: 256
- Fault Protection
- Reverse polarity: Shunt Diode

Isolated Analog Output
- The analog output is menu assignable to correspond to the Rate or Total.
- Type: Isolated Current Sourcing
- Available Ranges: 4-20 mA, 0-20 mA
- Resolution: 12 bit
- Accuracy: 0.05% FS at 20° C
- Update Rate: 1 update/sec minimum
- Temperature Drift: Less than 200 ppm/C
- Maximum Load: 1000 ohms (at nominal line voltage)
- Compliance Effect: Less than .05% Span
- 60 Hz rejection: 40 dB minimum
- Calibration: Operator assisted Learn Mode
- Averaging: User entry of damping constant to cause a smooth control action

Note: DC powered units are not isolated
**Terminal Designations**

<table>
<thead>
<tr>
<th>Terminal Designations</th>
<th>Fig. 1: Standard Dimensions</th>
<th>Fig. 2: Wall Mount (&quot;W&quot; mounting option) Dimensions</th>
</tr>
</thead>
</table>

**Ordering Information**

**Example 926-ST1LE**

<table>
<thead>
<tr>
<th>Series:</th>
<th>Display Type:</th>
<th>Input Type:</th>
<th>Relays:</th>
<th>Network Card:</th>
<th>Mounting:</th>
<th>Options:</th>
<th>Accessories:</th>
</tr>
</thead>
<tbody>
<tr>
<td>L A 0 P ET</td>
<td>L= LCD</td>
<td>1= 110 VAC</td>
<td>A= 2 SPDT Relays</td>
<td>0= None (STD)</td>
<td>P= Panel Mount</td>
<td>TB = RS485 Terminal Block for Panel Mount Enclosure</td>
<td>OPC/DDE Server for RS232 Port available, see EX5-UCOND-NA00</td>
</tr>
<tr>
<td></td>
<td>O= OLED</td>
<td>2= 220 VAC</td>
<td>B= 4 SPDT Relays</td>
<td>2= RS485/Modbus (optional 2nd COM port)</td>
<td>N= NEMA 4 Wall Mount</td>
<td>ET = Extended Temperature</td>
<td>OPC/DDE Server for Modbus Suite available, see EX5-MDBUS-NA00</td>
</tr>
<tr>
<td></td>
<td>V= VFD</td>
<td>3= 12 VDC (10 to 14 VDC)</td>
<td></td>
<td></td>
<td>W= NEMA 12/13 Wall Mount w/ Clear Cover</td>
<td>F= -4°F to 131°F (-20°C to 55°C)</td>
<td>Modem Available, see MPP-56KN and MPP-2400N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4= 24 VDC (14 to 28 VDC)</td>
<td></td>
<td></td>
<td>E= Explosion Proof</td>
<td>IM = Internal Modem</td>
<td>Ethernet Port Server available, see IEPS</td>
</tr>
</tbody>
</table>

**Accessories:**

- OPC/DDE Server for RS232 Port available, see EX5-UCOND-NA00
- OPC/DDE Server for Modbus Suite available, see EX5-MDBUS-NA00
- Modem Available, see MPP-56KN and MPP-2400N
- Serial printer available, see P1000, P295
- Ethernet Port Server available, see IEPS
- Ethernet Port Server Modbus TCP available, see ADAM4572
- RS-422/485 to RS-232 Communication Adapter available, see CA285
- Remote metering and data collection software available, see TROLlink

**Dimensions are in inches (mm)**