Technical Data

More Calibration Power!
The Fluke 726 Precision Multifunction Process Calibrator is designed specifically for the Process industry with broad workload coverage, calibration power and unsurpassed accuracy in mind. The 726 measures and sources almost all process parameters and can calibrate almost anything. The 726 will also interpret results without the help of a calculator and store measurement data for later analysis.

726 features:
- More precise measurement and calibration source performance, accuracies of 0.01%.
- Transmitter error% calculation, interpret calibration results without a calculator.
- Memory storage for up to 8 calibration results, return stored calibration data from the field for later analysis.
- Frequency totalizer and frequency pulse train source mode for enhanced flowmeter testing.
- HART mode inserts 250 ohm resistor in mA measure and source for compatibility with HART instrumentation.
- Integrated pressure switch test allows you to capture the set, reset and deadband of a switch.
- Custom RTD curves, add calibration constants for certified RTD probes for enhanced temperature measurement.
- New voltage input protection design for improved reliability.
- Two separate channels; measure, source and view process signals simultaneously.
- Measure volts, mA, RTDs, thermocouples, frequency, and resistance to test sensors and transmitters.
- Source/simulate volts, mA, thermocouples, RTDs, frequency, and pressure to calibrate transmitters.
- Source mA with simultaneous pressure measurement to conduct valve and I/P tests.
- Perform fast linearity tests with auto step and auto ramp features.
- Power transmitters during test using 24 V loop supply and simultaneous mA measurement.
- Store frequently-used test setups for later use.
- Three-year warranty.

*Pressure pump required

For more detailed information visit www.fluke.com/726
General Specifications

**Storage temperature:** -20 °C to 71 °C

**Operating temperature:** -10 °C to 55 °C

**Relative humidity:** 90 % (10 °C to 30 °C); 75 % (30 °C to 40 °C); 45 % (40 °C to 50 °C); 35 % (60 °C to 85 °C)

**Shock:** 1 meter drop test

**Safety:** CSA C22.2 No. 1010.1:1992

**EMC:** EN50082-1:1992 and EN55022:1994 Class B

**Size (HxWxD):** 200 mm x 96 mm x 47 mm

**Weight:** 650 g (23 oz)

**Battery:** Four AA alkaline batteries

**Battery life:** 25 hours typical

**Warranty:** Three-years

Fluke. Keeping your world up and running.

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For more information call:
In the U.S.A. (800) 443-5853 or Fax (425) 446-SI16
In Europe/M-East/Africa (31 40) 2 675 200 or Fax (31 40) 2 675 222
In Canada (800)-36-FLUKE or Fax (905) 890-6866
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Web access: http://www.fluke.com

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### 726 Specifications

<table>
<thead>
<tr>
<th>Function</th>
<th>Measure or Source</th>
<th>Range or Type</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td></td>
<td>0 to 100 mV</td>
<td>0.01 mV</td>
<td>0.01 % Rdg + 2 LSD</td>
<td>Max load, 1 mA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 to 20 V (source)</td>
<td>0.01 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 to 30 V (measure)</td>
<td>0.01 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>mA</td>
<td></td>
<td>0 to 24</td>
<td>0.001 mA</td>
<td>0.01 % Rdg + 2 LSD</td>
<td>Max load, 1000 Ω</td>
</tr>
<tr>
<td>mV (TC terminals)</td>
<td></td>
<td>-10.00 mV to +75.00 mV</td>
<td>0.01 mV</td>
<td>0.01 % of range + 1 LSD</td>
<td></td>
</tr>
<tr>
<td>Resistance</td>
<td></td>
<td>15 Ω to 2000 Ω</td>
<td>≤ 0.01 Ω to 0.1 Ω</td>
<td>0.015 %</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td></td>
<td>2.0 to 1000 CPM</td>
<td>0.1 CPM</td>
<td>± 0.05 %</td>
<td>For frequency source; 1 V to 20 V p-p squarewave, -0.1 V offset</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 to 100 kHz</td>
<td>0.1 kHz</td>
<td>± 0.25 %</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.0 to 10.0 kHz</td>
<td>0.1 kHz</td>
<td>± 0.5 %</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10.0 to 15.0 kHz</td>
<td>0.1 kHz</td>
<td>± 0.5 %</td>
<td></td>
</tr>
<tr>
<td>Loop Supply</td>
<td></td>
<td>24 V dc</td>
<td>N/A</td>
<td></td>
<td>10 %</td>
</tr>
<tr>
<td>Thermocouples</td>
<td></td>
<td>J, K, T, E, L, N, U</td>
<td>0.1 ºC, 0.1 ºF</td>
<td>to 0.2 ºC</td>
<td></td>
</tr>
<tr>
<td>Thermocouples</td>
<td></td>
<td>B, R, S</td>
<td>1 ºC, 1 ºF</td>
<td>to 1.2 ºC</td>
<td></td>
</tr>
<tr>
<td>RTDs</td>
<td>Cu 10 Ni 120 (672) Pt 100, 200, 500, 1000 (385) Pt 100 (3916), Pt 100 (3926)</td>
<td>0.01 ºC, 0.01 ºF</td>
<td>to 0.15 ºC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Simultaneous Function Capability**

<table>
<thead>
<tr>
<th>Function</th>
<th>Channel A</th>
<th>Channel B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>M</td>
<td>M or S</td>
</tr>
<tr>
<td>mA</td>
<td>M</td>
<td>M or S</td>
</tr>
<tr>
<td>mV (TC terminals)</td>
<td></td>
<td>M</td>
</tr>
<tr>
<td>Resistance</td>
<td></td>
<td>M</td>
</tr>
<tr>
<td>Frequency</td>
<td></td>
<td>M</td>
</tr>
<tr>
<td>Thermocouples</td>
<td></td>
<td>M</td>
</tr>
<tr>
<td>RTDs</td>
<td>M</td>
<td>M used as S</td>
</tr>
<tr>
<td>Pressure (requires Fluke 700PXX Modules)</td>
<td>M</td>
<td>M or S</td>
</tr>
<tr>
<td>Frequency; Squarewave, 1 CPM to 10 kHz; fixed amplitude 5 V p-p</td>
<td>M</td>
<td>M or S</td>
</tr>
</tbody>
</table>

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**Ordering Information**

**Fluke-726** Precision Multifunction Process Calibrator

**Included**

TL75 Test Leads, AC72 Test Clips, one pair of stackable test leads, product overview manual (print) and user’s manual (CD-ROM) in 14 languages.

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