

**FLUKE®**

# Fluke 726

## Precision Multifunction Process Calibrator

### 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.
- 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
- Measure or \*source pressure using any of 29 Fluke 700Pxx Pressure Modules
- 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

# 726 Specifications

| Function Measure or Source | Range or Type                                                                                  | Resolution                                                                                               | Accuracy                                                    | Notes                                                                 |
|----------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------|
| Voltage                    | 0 to 100 mV<br>0 to 20 V (source)<br>0 to 30 V (measure)                                       | 0.01 mV<br>0.01 V<br>0.01 V                                                                              | 0.01 % Rdg + 2 LSD                                          | Max load, 1 mA                                                        |
| mA                         | 0 to 24                                                                                        | 0.001 mA                                                                                                 | 0.01 % Rdg + 2 LSD                                          | Max load, 1000 $\Omega$                                               |
| mV (TC terminals)          | -10.00 mV to +75.00 mV                                                                         | .01 mV                                                                                                   | 0.01 % of range + 1 LSD                                     |                                                                       |
| Resistance                 | 5 $\Omega$ to 4000 $\Omega$                                                                    | $\leq 0.01 \Omega$ to 0.1 $\Omega$                                                                       | 0.015 %                                                     |                                                                       |
| Frequency                  | 2.0 to 1,000 CPM<br>1 to 1100 Hz<br>1.0 to 10.0 kHz<br>10.0 to 15.0 kHz                        | 0.1 CPM<br>1 Hz<br>0.1 kHz<br>0.1 kHz                                                                    | $\pm 0.05$ %<br>$\pm 0.05$ %<br>$\pm 0.25$ %<br>$\pm 0.5$ % | For frequency source;<br>1 V to 20 V p-p<br>squarewave, -0.1 V offset |
| Loop Supply                | 24 V dc                                                                                        | N/A                                                                                                      | 10 %                                                        |                                                                       |
| Thermocouples              | J, K, T, E, L, N, U, C, BP, XK                                                                 | 0.1 $^{\circ}\text{C}$ , 0.1 $^{\circ}\text{F}$                                                          | to 0.2 $^{\circ}\text{C}$                                   |                                                                       |
| Thermocouples              | B, R, S                                                                                        | 1 $^{\circ}\text{C}$ , 1 $^{\circ}\text{F}$                                                              | to 1.2 $^{\circ}\text{C}$                                   |                                                                       |
| RTDs                       | Cu 10 Ni 120 (672)<br>Pt 100, 200, 500,<br>1000 (385)<br>Pt 100 (3916),<br>Pt 100 (3926) Cu 10 | 0.1 $^{\circ}\text{C}$ , 0.1 $^{\circ}\text{F}$<br><br>0.01 $^{\circ}\text{C}$ , 0.01 $^{\circ}\text{F}$ | to 1.8 $^{\circ}\text{C}$<br><br>to 0.15 $^{\circ}\text{C}$ |                                                                       |

| Simultaneous Function Capability                                        | Channel A | Channel B   |
|-------------------------------------------------------------------------|-----------|-------------|
| 24.000 mA DC                                                            | M         | M or S      |
| 24.000 mA DC with 24 V loop supply                                      | M         |             |
| 100.00 mV DC                                                            |           | M or S      |
| 30.000 V DC measure                                                     | M         |             |
| 20.000 V DC measure, 20.000 VDC Source                                  |           | M or S      |
| 5 to 4000 Ohms                                                          |           | M or S      |
| Thermocouple J, K, T, E, R, S, B, M, L, U, N, C, BP, XK                 |           | M or S      |
| RTD Ni120; Pt100 (392); Pt100 (JIS); Pt100, 200, 500, 1000 (385), Cu 10 |           | M or S      |
| Pressure (requires Fluke 700PXX Modules)                                | M         | M used as S |
| Frequency; Squarewave, 1 CPM to 10 kHz; fixed amplitude 5 V p-p         |           | M or S      |

**M** = Measure, **S** = Source/Simulate

## General Specifications

**Storage temperature:** -20  $^{\circ}\text{C}$  to 71  $^{\circ}\text{C}$   
**Operating temperature:** -10  $^{\circ}\text{C}$  to 55  $^{\circ}\text{C}$   
**Relative humidity:** 90 % (10  $^{\circ}\text{C}$  to 30  $^{\circ}\text{C}$ );  
75 % (30  $^{\circ}\text{C}$  to 40  $^{\circ}\text{C}$ ); 45 % (40  $^{\circ}\text{C}$  to 50  $^{\circ}\text{C}$ ); 35 % (50  $^{\circ}\text{C}$  to 55  $^{\circ}\text{C}$ )  
**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  
(7.9 in x 3.8 in x 1.9 in)  
**Weight:** 650 g (23 oz)  
**Battery:** Four AA alkaline batteries  
**Battery life:** 25 hours typical  
**Warranty:** Three-years

## 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.

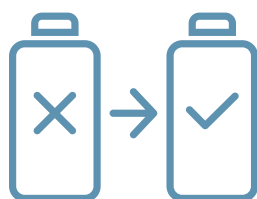
# Fluke Premium Care plans

Coverage that prevents unexpected downtime caused by damaged test equipment, accessories, or tools in need of calibration or repair.



## Accidental damage and repair

Avoid costly repairs and rest easy knowing that any damage to your test tool is covered



## Replacement of damaged accessories

Replace damaged accessories that could be affecting the accuracy of your test results at no extra cost



## Annual tool inspection, calibration, cleaning, and updating

Ensure your test tool is providing accurate results and adheres to regulatory compliance by leaving it in the hands of our experts



## Expedited calibration and repair

Skip the wait—your calibration or repair will be expedited so you can get back to your tool and work faster

|                                         | Standard warranty | Premium Care-Standard | Premium Care-Gold |
|-----------------------------------------|-------------------|-----------------------|-------------------|
| Repair manufacturing defects            | ●                 | ●                     | ●                 |
| Accidental damage and repair            |                   | ●                     | ●                 |
| Replacement of damaged accessories      |                   | ●                     | ●                 |
| Annual calibration or performance check |                   | ●                     | ●                 |
| Expedited calibration and repair        |                   | ●                     | ●                 |
| Priority tech support                   |                   | ●                     | ●                 |
| Software updates                        |                   | ●                     | ●                 |
| Expedited shipping                      |                   | ●                     | ●                 |
| Loaner equipment                        |                   |                       | ●                 |

## Fluke Premium Care support plans selection chart

| Description               |                                                                                                 | Choose your Fluke Premium Care service level |                     |                 |                 |
|---------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------|-----------------|-----------------|
|                           |                                                                                                 | 1-year Standard                              | 3-year Standard     | 1-year Gold     | 3-year Gold     |
| Acoustic imagers          | Fluke ii900 Industrial Acoustic Imager                                                          | FPC1S-II900-1                                | FPC3S-II900-1       | -               | -               |
|                           | Fluke ii910 Precision Acoustic Imager                                                           | FPC1S-II910-1                                | FPC3S-II910-1       | -               | -               |
|                           | Fluke ii900 Industrial Acoustic Imager with 1 Year of Premium Care-Standard                     | FLUKE-II900/FPC                              | -                   | -               | -               |
|                           | Fluke ii910 Precision Acoustic Imager with 1 Year of Premium Care-Standard                      | FLUKE-II910/FPC                              | -                   | -               | -               |
| PQ analyzers              | Fluke 1770 Series Power Quality Analyzers (1773, 1775, 1777)                                    | FPC1S-FPQ170-1                               | FPC3S-FPQ170-1      | FPC1G-FPQ170-1  | FPC3G-FPQ170-1  |
|                           | Fluke 1775 Power Quality Analyzer with 1 Year of Premium Care-Standard                          | FLUKE-1775/FPC                               | -                   | -               | -               |
|                           | Fluke 1777 Power Quality Analyzer with 1 Year of Premium Care-Standard                          | FLUKE-1777/FPC                               | -                   | -               | -               |
| PQ loggers                | Fluke 1730 Series Power Quality Loggers (1732, 1734, 1736, 1738)                                | FPC1S-FPQ173-1                               | FPC3S-FPQ173-1      | FPC1G-FPQ173-1  | -               |
|                           | Fluke 1736 Series Power Quality Logger with 1 Year of Premium Care-Standard                     | FLUKE-1736/FPC                               | -                   | -               | -               |
|                           | Fluke 1738 Series Power Quality Logger with 1 Year of Premium Care-Standard                     | FLUKE-1738/FPC                               | -                   | -               | -               |
| Process tools             | Fluke 754 and 753 Documenting Process Calibrator                                                | FPC1S-FLUKE75X-1                             | FPC3S-FLUKE75X-1    | -               | -               |
|                           | Fluke 729 Pressure Calibrators                                                                  | FPC1S-FLUKE729-1                             | FPC3S-FLUKE729-1    | -               | -               |
|                           | Fluke 726, 725 and 721 Precision Multifunction Calibrators                                      | FPC1S-FLUKE72X-1                             | FPC3S-FLUKE72X-1    | -               | -               |
|                           | Fluke 719PRO, 719 and 718 Pressure Calibrators                                                  | FPC1S-FLUKE71X-1                             | FPC3S-FLUKE71X-1    | -               | -               |
|                           | Fluke 750P Pressure Modules                                                                     | FPC1S-FLUKE-750PM-1                          | FPC3S-FLUKE-750PM-1 | -               | -               |
|                           | Fluke 700G Pressure Gauges                                                                      | FPC1S-FLUKE-700GA-1                          | FPC3S-FLUKE-700GA-1 | -               | -               |
|                           | Fluke 754 Documenting Process Calibrator with 1 Year of Premium Care-Standard                   | FLUKE-754/FPC                                | -                   | -               | -               |
|                           | Fluke 726 Precision Multifunction Calibrator with 1 Year of Premium Care-Standard               | FLUKE-726/FPC                                | -                   | -               | -               |
|                           | Fluke 725 Precision Multifunction Calibrator with 1 Year of Premium Care-Standard               | FLUKE-725/FPC                                | -                   | -               | -               |
| Motor drive analyzers     | Fluke MDA-550-III Motor Drive Analyzer                                                          | FPC1S-MDA-500-1                              | FPC3S-MDA-500-1     | FPC1G-MDA-500-1 | FPC3G-MDA-500-1 |
|                           | Fluke MDA-550-III Motor Drive Analyzer with 1 Year of Premium Care-Standard                     | FLUKE-MDA-550/FPC                            | -                   | -               | -               |
| Multi-function PV testers | Fluke SMFT-1000 PV Analyzer I-V Curve Tracer                                                    | FPC1S-SMFT-1000-1                            | FPC3S-SMFT-1000-3   |                 |                 |
|                           | Fluke SMFT-1000 PV Analyzer I-V Curve Tracer with 1 Year of Premium Care-Standard               | FLK-SMFT-1000/FPC                            | -                   | -               | -               |
| Scope meters              | Fluke ScopeMeter 190 Series III (190-062, 190-102, 190-104, 190-202, 190-204, 190-502, 190-504) | FPC1S-SCM190-1                               | FPC3S-SCM190-1      | FPC1G-SCM190-1  | FPC3G-SCM190-1  |
|                           | Fluke 190-504-III ScopeMeter Test Tool with 1 Year of Premium Care-Standard                     | FLUKE-190-504/FPC                            | -                   | -               | -               |