

TECHNICAL DATA

# Fluke 719 Pressure Calibrator



## Key features

- Pressure calibrator with built-in electric pump for one-handed pressure calibration
- Offers best-in-class pressure measurement uncertainty of 0.025%
- Measures and sources mA with best in class 0.015% accuracy to test valves and I/Ps
- Calibrates 30 psi and 100 psi pressure ranges
- Features precision pressure adjustment vernier for easy and accurate pressure calibration

## Product overview: Fluke 719 Pressure Calibrator

Calibrate pressure with one hand using the Fluke 719 Electric Pressure Calibrator

Forget the hassle of hand pumping. Now you can calibrate and test pressure devices quickly and easily with one hand, saving valuable time. With the innovative, built-in electric pump, the Fluke 719 Electric Pressure Calibrator provides pressure calibration at your fingertips!

Use the programmable pump limit settings to eliminate over-pressurization, and to set “pump to” pressure values. The unique cleanout port design reduces pump failures, and makes the 719 easy to clean without repair. The compact, lightweight form, combined with one-handed calibration, makes this pressure calibrator the ideal tool for busy process professionals.

The Fluke 719 delivers pressure calibration made easy, by a name you know and trust for all your process calibration needs.

Other useful features:

- Simulates mA signals to troubleshoot 4-20 mA loops
- Powers transmitters during test using 24 V loop supply
- Comes with three-year warranty for calibrator
- Provides variable release rate bleed valve for easy pressure adjustment
- Offers ideal performance for high accuracy transmitter calibration
- Offers a programmable pressure calibrator pump limit that:
  - Eliminates over-pressurization
  - Allows the user to program target pressures for pumping
- Tests pressure switches easily with switch test function
- Provides extended pressure measurement range with any of 50 [750P series Pressure Modules](#)
- Pump cleanout ports to reduce pump failures from moisture and fluid damage

## Specifications: Fluke 719 Pressure Calibrator

| General Specifications |   |   |
|------------------------|---|---|
| Storage temperature    | -30°C to 60°C   |   |
| Operating temperature  | -10°C to 55°C   |   |
| Relative humidity      | 95% (-10°C to 30°C)   |   |
|                        | 75% (30°C to 40°C)  |   |
|                        | 45% (40°C to 50°C)  |   |
|                        | 35% (50°C to 55°C)  |   |
| Shock                  | 1 meter drop test   |   |
| Safety                 | CSA C22.2 No. 1010.1:1992   |   |
| EMC                    | EN50082-1:1992 and EN55022:1994 Class B   |   |
| Size (H x W x L)       | 60 x 87 x 210 mm  |   |
|                        | (2.19 x 3.41 x 8.28 in)   |   |
| Weight                 | 912 g (2 lb)  |   |
| Battery                | Two 9 V alkaline batteries  |   |
| Battery life           | 12 hours with 12 mA into 500 Ω, 200 pump cycles to 100 psi, 500 pump cycles to 30 psi |   |
| Warranty               | Three-years, one year for pump  |   |
| Specifications         |   |   |
| Fluke-719 30G          | Range   | -12 to 36 psi, -850 mbar to 2.4 bar                           |
|                        | Resolution  | 0.001 psi, 0.1 mbar   |
|                        | Accuracy  | 0.025% range for 6 months<br>0.035% of range for one (1) year |
| Fluke-719 100G         | Range   | -12 to 120 psi, -850 mbar to 8 bar                            |
|                        | Resolution  | 0.01 psi, 1 mbar  |
|                        | Accuracy  | 0.025% range for 6 months<br>0.035% of range for one (1) year |



|                              |   |                      |
|------------------------------|---|----------------------|
| mA                           | Range   | 0 to 24 mA           |
|                              | Resolution  | 0.001 mA             |
|                              | Accuracy  | .015% Rdg + 2 counts |
|                              | Max load, 1000 $\Omega$ , 750 $\Omega$ ohm in HART mode |                      |
| Loop supply                  | Range   | 24 V DC              |
|                              | Resolution  | N/A                  |
|                              | Accuracy  | $\pm 10\%$           |
| <b>Pump Specifications</b>   |   |                      |
| Maximum pressure generation  | 120 psi (8 BAR) (100 psi model)                         |                      |
| Pump to                      | -30 psi in less than 15 seconds <sup>1</sup>            |                      |
|                              | -100 psi in less than 45 seconds <sup>1</sup>           |                      |
|                              | 1. With 1 meter of 1/8 inch test hose                   |                      |
| Pump cycles between rebuilds | 5000  |                      |
| Total pump life              | 20,000 calibration cycle                                |                      |

## Ordering information



### **Fluke 719 30G**

Fluke 719 30G Pressure Calibrator 30 psi, 2 bar

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Includes:

- Protective yellow holster
  - Instructions sheet (15 languages)
  - Test leads and alligator clip
  - Two 9V alkaline batteries
  - Hose Kit
  - NIST - Traceable calibration report and data
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### **Fluke 719 100G**

Fluke 719 100G Pressure Calibrator 100 psi, 7 bar

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Includes:

- Protective yellow holster
  - Instructions sheet (15 languages)
  - Test leads and alligator clip
  - Two 9V alkaline batteries
  - Hose Kit
  - NIST - Traceable calibration report and data
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