

Fluke 719 Electric Pressure Calibrator

Technical Data



One handed pressure calibration

With the innovative, built-in electric pump, the Fluke 719 provides pressure calibration at your fingertips! Now you can calibrate and test pressure devices quickly and easily with one hand, saving you valuable time. 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 use, makes this pressure calibrator the ideal tool for busy process professionals.

- Electric pump for one handed pressure calibration
- Best in class pressure measurement uncertainty of 0.025 %
- Measure and source mA with best in class 0.015 % accuracy
- Precision pressure adjust vernier
- Variable release rate bleed valve for easy pressure adjustment
- Ideal performance for high accuracy transmitter calibration
- 30 PSI and 100 PSI pressure ranges
- Programmable pump limit:
 - Eliminates over-pressurization
 - Allows the user to program target pressures for pumping
- Extended measurement range with any of twenty-nine (29) 700Pxx Pressure Modules
- Source mA with simultaneous pressure measurement to test valves and I/Ps
- Simulate mA signals to troubleshoot 4-20 mA loops
- Test pressure switches with built in switch test function
- Power transmitters during test using 24 V loop supply
- Proven cleanout ports reduce pump failures

Pump specifications

- Maximum pressure generation of 120 PSI (8 BAR) (100 PSI model)
- Pump to:
 - 30 PSI in less than 15 seconds*
 - 100 psi in less than 45 seconds*
- *(with 1 meter of 1/8 inch test hose)
- 5000 pump cycles between rebuilds
- Total pump life 20,000 calibration cycle

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 (HxWxL): 60 mm x 87 mm x 210 mm

(2.19 in x 3.41 in 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

| Function Measure or Source | Range | Resolution | Accuracy | Notes |
|----------------------------|-------------------------------------|---------------------|-----------------------------------|--|
| Fluke-719 30G | -12 to 36 psi, -850 mbar to 2.4 bar | 0.001 psi, 0.1 mbar | 0.025 % range for 6 months. | |
| Fluke-719 100G | -12 to 120 psi, -850 mbar to 8 bar | 0.01 psi, 1 mbar | 0.035 % of range for one (1) year | |
| mA | 0 to 24 mA | 0.001 mA | .015 % Rdg + 2 counts | Max load, 1000 Ω 750 Ω ohm in HART mode |
| Loop supply | 24 V dc | N/A | ± 10 % | |

Ordering information

Fluke-719 30G Electric Pressure Calibrator, 30 psi, 2 bar

Fluke-719 100G Electric Pressure Calibrator, 100 psi, 7 bar

Includes: TL75 Test leads, AC72 Alligator clip set, Push fit connectors, Translucent test hose, Product overview manual (print), and User's manual (CD-ROM) in 14 languages

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