

Fluke 719Pro Electric Pressure Calibrator

Technical Data

Integrated electric pump—now to 300 PSI/20 bar

The 719Pro Electric Pressure Calibrator is the ideal test tool for calibrating high accuracy transmitters, pressure switches and pressure gauges.

The 719Pro includes a full functioning loop calibrator that sources, simulates and measures mA signals and more.

The large backlit screen displays three parameters at once:

- Pressure measurement from internal or external sensor
- Sourced/simulated or measured mA values
- Temperature measured by optional RTD probe



- Unique integrated electric pump for one handed pressure calibration
- Test pressure switches easily with easy-to-use switch test function
- Precision pressure adjust vernier for easy and accurate pressure calibration
- Ideal accuracy and performance (0.025 %) for reference class transmitter calibration
- 30 PSI, 150 PSI and the new 300 PSI pressure ranges
- Programmable pressure calibrator pump limit:
 - eliminates over-pressurization
 - allows the user to program target pressures for pumping
- Extended pressure measurement range with any of 29 700Pxx Pressure Modules
- Pump cleanout ports reduce pump failures from moisture and fluid damage
- Fluid trap included with the unit to mitigate chance of fluid damage in at-risk applications
- Precision temperature measurement with optional RTD probe

Specifications

| Pressure measurement | Range | Resolution | Accuracy | Comment |
|--|-------------------------------------|--------------------------|---|--|
| Fluke-719Pro-30G | -12 to 30 PSI /-0.8 to 2 bar | 0.001 PSI, 0.0001 bar | ± 0.025 % of full scale, 6 months ± 0.035 % of full scale, 1 year | Dry Air and non-corrosive gas only |
| Fluke-719Pro-150G | -12 to 150 PSI /-0.8 to 10 bar | 0.01 PSI, 0.001 bar | | |
| Fluke-719Pro-300G | -12 to 300 PSI / -0.8 to 20 bar | 0.01 PSI, 0.001 bar | | |
| Temperature effect (all ranges) | | | Add ± 0.002 % F.S./°C for temps outside of 15 °C to 35 °C | No effect on accuracy on all functions from 15 °C to 35 °C |
| Function | Range | Resolution | Accuracy (1 year) | Comment |
| mA dc (simulation and measurement) | 0-24 mA dc | 0.001 mA | ± 0.015 % of reading ± 2 counts | 1000 ohm maximum load in mA source, 26 V dc maximum voltage in mA simulate |
| Volts dc (measurement only) | 30 V dc | 0.001 V | ± 0.015 % of reading ± 2 counts | No AC voltage measurement, do not exceed 30 V dc |
| Temperature (measurement only, Pt100 RTD) | -50 to 150 °C (-50 °F to 302 °F) | 0.01 °C 0.01 °F | Temperature ± 0.1 °C (0.2 °F) | ± 0.25 °C (± 0.45 °F) combined uncertainty when using 720 RTD probe (optional accessory) |
| Loop power supply | 24 V dc | N/A | 24 mA at 24 V | |
| Temperature effect (all functions) | | | Add ± 0.002 % F.S./°C for temps outside of 15 °C to 35 °C | No effect on accuracy on all functions from 15 °C to 35 °C |
| Environmental | | | | |
| Operating temperature | | | -10 °C to +50 °C | |
| Storage with batteries per battery manufacturer's specification within storage specification below | | | | |
| Storage temperature (without batteries) | | | -20 °C to +60 °C | |
| Power requirements | | | | |
| Battery | | | Eight (8) standard Alkaline AA batteries | |
| Battery life | | | 300 pump cycles to 150 PSI minimum; 1000 pump cycles to 30 PSI; 100 pump cycles to 300 PSI minimum | |
| Physical | | | | |
| Dimensions (HxWxD) | | | 24.13 cm x 11.18 cm x 7 cm (9.5 in x 4.4 in x 2.8 in) | |
| Weight | | | With holster 1.2 kg (2.5 lb) | |
| Connections | | | | |
| Pressure | | | 1/8 inch female NPT | |
| Electrical | | | Standard banana jacks | |
| RTD | | | 4 pin miniature circular | |
| External module | | | 6 pin miniature circular | |
| Engineering units (configurable) | | | | |
| psi, bar, mbar, kPa, kg/cm ² , cmH ₂ O@4 °C, cmH ₂ O@20 °C, mH ₂ O@4 °C, mH ₂ O@20 °C, inH ₂ O@4 °C, inH ₂ O@20 °C, inH ₂ O@60 °F, mmHg@0 °C, inHg@0 °C, ftH ₂ O@4 °C, ftH ₂ O@20 °C, ftH ₂ O@60 °F | | | | |

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Ordering information

Fluke-719Pro-30G Electric Pressure Calibrator, 30 PSIG
Fluke-719Pro-150G Electric Pressure Calibrator, 150 PSIG
Fluke-719Pro-300G Electric Pressure Calibrator, 300 PSIG
Fluke-720RTD RTD Probe for 721 and 719Pro
Fluke-720URTDA Universal RTD adapter for Fluke-721 and 719Pro
Fluke-71XTrap Liquid and dirt trap for 718 and 719Pro

Included with all models

Test leads with alligator clips, printed users manual and users manual on CD-ROM in 14 languages, fluid trap, carrying case, 1/4 inch NPT to 1/4 inch ISO adapter, accessory hose kit with (2) 1/8 inch quick fit adapters and 1 meter of hose, Traceable Certificate of Calibration.

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