

# 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<br>/-0.8 to 2 bar     | 0.001 PSI,<br>0.0001 bar | ± 0.025 % of full scale, 6 months<br>± 0.035 % of full scale, 1 year                                  | Dry Air and non-corrosive gas only                                                             |
| Fluke-719Pro-150G                                                                                                                                                                                                                                                                                                           | -12 to 150 PSI<br>/-0.8 to 10 bar   | 0.01 PSI,<br>0.001 bar   |                                                                                                       |                                                                                                |
| Fluke-719Pro-300G                                                                                                                                                                                                                                                                                                           | -12 to 300 PSI /<br>-0.8 to 20 bar  | 0.01 PSI,<br>0.001 bar   |                                                                                                       |                                                                                                |
| Temperature effect<br>(all ranges)                                                                                                                                                                                                                                                                                          |                                     |                          | Add ± 0.002 % F.S./°C for temps<br>outside of 15 °C to 35 °C                                          | No effect on accuracy on all functions<br>from 15 °C to 35 °C                                  |
| Function                                                                                                                                                                                                                                                                                                                    | Range                               | Resolution               | Accuracy (1 year)                                                                                     | Comment                                                                                        |
| mA dc (simulation and<br>measurement)                                                                                                                                                                                                                                                                                       | 0-24 mA dc                          | 0.001 mA                 | ± 0.015 % of reading ± 2 counts                                                                       | 1000 ohm maximum load in mA source,<br>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<br>exceed 30 V dc                                            |
| Temperature (measurement<br>only, Pt100 RTD)                                                                                                                                                                                                                                                                                | -50 to 150 °C<br>(-50 °F to 302 °F) | 0.01 °C<br>0.01 °F       | Temperature ± 0.1 °C (0.2 °F)                                                                         | ± 0.25 °C (± 0.45 °F) combined<br>uncertainty when using 720 RTD probe<br>(optional accessory) |
| Loop power supply                                                                                                                                                                                                                                                                                                           | 24 V dc                             | N/A                      | 24 mA at 24 V                                                                                         |                                                                                                |
| Temperature effect<br>(all functions)                                                                                                                                                                                                                                                                                       |                                     |                          | Add ± 0.002 % F.S./°C for temps<br>outside of 15 °C to 35 °C                                          | No effect on accuracy on all functions<br>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;<br>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, kgcm <sup>2</sup> , cmH <sub>2</sub> O@4 °C, cmH <sub>2</sub> O@20 °C, mH <sub>2</sub> O@4 °C, mH <sub>2</sub> O@20 °C, inH <sub>2</sub> O@4 °C, inH <sub>2</sub> O@20 °C, inH <sub>2</sub> O@60 °F, mmHg@0 °C, inHg@0 °C, ftH <sub>2</sub> O@4 °C, ftH <sub>2</sub> O@20 °C, ftH <sub>2</sub> O@60 °F |                                     |                          |                                                                                                       |                                                                                                |

**Fluke.** *The Most Trusted Tools  
in the World.*

### 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-720URTD** 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.