

Fluke 719Pro Electric Pressure Calibrator

Elso Philips Service, Jilemnického 2; 911 01 Trenčín; tel: +421 32 6582410, 7431690; fax: +421 32 6582592; email: elso@elso.sk; web: www.elso.sk

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, kgcm², cmH₂O@4 °C, cmH₂O@20 °C, mH₂O@4 °C, mH₂O@20 °C, inH₂O@4 °C, inH₂O@20 °C, inH₂O@60 °F, mmHg@0 °C, inHg@0 °C, ftH₂O@4 °C, ftH₂O@20 °C, ftH₂O@60 °F				

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.

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Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.
PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:
In the U.S.A. (800) 443-5853 or
Fax (425) 446-5116
In Europe/M-East/Africa +31 (0) 40 2675 200 or
Fax +31 (0) 40 2675 222
In Canada (800)-36-FLUKE or
Fax (905) 890-6866
From other countries +1 (425) 446-5500 or
Fax +1 (425) 446-5116
Web access: <http://www.fluke.com>

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