

## Fluke 718 30G and 100G Pressure Calibrators

New



### Pump up the pressure.

The Fluke 718 Pressure Calibrator offers a new approach to pressure calibration. A complete, self-contained calibration solution, the 718 offers:

- Built-in pressure / vacuum hand pump, with vernier and bleed valve.
- Pressure measurement to 0.05% of full span, using an internal pressure sensor.
- Pressure measurement to 10,000 psi / 700 bar using any of the Fluke-700Pxx Pressure Modules.
- Wide range of selectable measurement units for pressure.
- Current measurement with 0.025% accuracy and 0.001 mA resolution.
- 24 volt loop power supply.
- Min-Max Hold functions.
- Compact size and weight.
- Simple, push-button user interface.
- Rugged and reliable, ideal for field use.

### General specifications

- Maximum voltage:** 30 volts
- Non-operating temperature:** -40°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)
- Operating altitude:** 3,000m max
- Shock:** 1m drop test
- Vibration:** Random, 2g, 5-500 Hz
- Safety:** CSA C22.2 No. 1010.1:1992
- EMC:** EN50082-1:1992 and EN55022:1994 Class B
- Size/weight:** 210 mm L x 83 mm W x 62 mm D (8.25 in L x 3.27 in W x 2.44 in D) 737g (26 oz)
- Size/weight (with holster):** 216 mm L x 94 mm W x 66 mm D (8.50 in L x 3.72 in W x 2.60 in D) 992g (35 oz)
- Power:** Two 9V battery ANSI/NEDA 1604A or IEC 6LR619V alkaline batteries
- Battery Life:** 4 to 20 hours, typical, depending on functions used
- Warranty:** Three years (one year on pressure pump)

### Ordering information

#### Fluke-718 30G Pressure Calibrator Fluke-718 100G Pressure Calibrator

Each calibrator includes: Protective Yellow Holster, TL75 test leads, AC720 Test Clips, Users Manuals appropriate to country of destination (English, French, German, Spanish, Italian, Dutch, Norwegian, Danish, Swedish, Finnish, Portuguese, Korean, Chinese, Japanese), CE and CSA markings.

### Pressure specifications (18° to 28°C, one year)

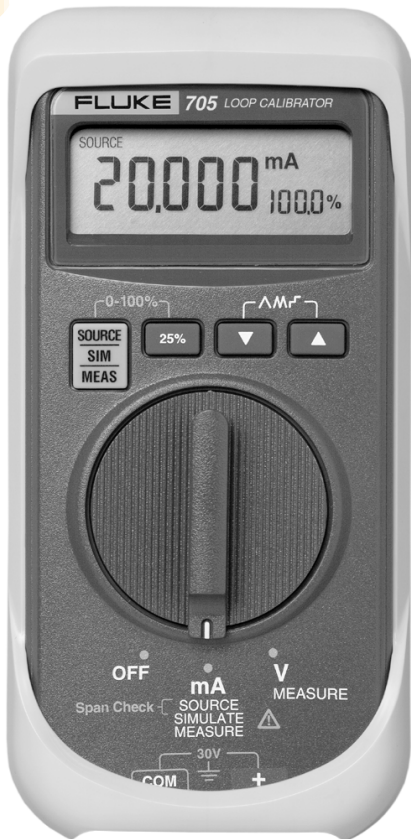
718 30G	718 100G	Function	Range	Resolution	Accuracy	Notes
•		Measure Pressure <sup>1</sup> (internal sensor) Over pressure 3xFS	0-30 psi (207 kPa)	0.001 psi (0.01 kPa)	0.05% FS	Gasses/liquids (non-corrosive) Zero, Min, Max, Hold, Damp
	•	Measure Pressure <sup>1</sup> (internal sensor) Over pressure 2xFS	0-100 psi (690 kPa)	0.01 psi (0.1kPa)	0.05% FS	Gasses/liquids (non-corrosive) Zero, Min, Max, Hold, Damp
•	•	Measure Pressure <sup>1</sup> (with Pressure Modules) Over pressure per pressure module specs	27 Pressure Modules, 10 in. H <sub>2</sub> O/ 2.5 kPa to 10,000 psi/69 MPa	To 0.0001 psi, per Pressure Module specs <sup>2</sup>	To 0.05% of full span, per Pressure Module Specs <sup>2</sup>	Media compatibility per Pressure Module Specs <sup>2</sup> Zero, Min, Max, Hold, Damp
•	•	Source Pressure, built-in pump	-11 psig to full scale	N/A	N/A	
•	•	Measure mA	0 to 24 mA	0.001 mA	0.025% + 1 count	
•	•	Loop supply	24 V dc	N/A	±10%	Drive; 20 mA into 1000 Ω for battery >6.8V; 700 Ω for battery 5.8 to 6.8V

<sup>1</sup>Supported Pressure Units: psi, in. H<sub>2</sub>O (4°C), in. H<sub>2</sub>O (20°C), cm H<sub>2</sub>O (4°C), cm H<sub>2</sub>O (20°C), bar, mbar, kPa, inHg, mmHg, kg/cm<sup>2</sup>

<sup>2</sup> Pressure Module Specifications, see Pressure Applications Note, B0300

## Fluke 705 Loop Calibrator

**New**



### Low cost calibrator muscle.

For a powerful loop calibrator at a very affordable price, choose the new Fluke 705 Loop Calibrator. This feature-rich solution to loop calibration, maintenance and repair offers:

- A large display and simple, pushbutton interface for ease of use.
- Simultaneous mA and % readout for quick, easy interpretation of readings.
- mA accuracy of 0.02%.
- Push button 25% steps for fast, easy linearity checks. Save time over traditional knob type controls.
- "Span Check" for fast confirmation of zero and span.
- Selectable slow ramp, fast ramp, and step to provide smooth outputs for valve slewing and loop functional tests.

- 24 volt internal loop supply, so you can power and read a transmitter at the same time without carrying a DMM.
- Single 9V battery that is easily changed.
- 0 - 20 mA or 4 - 20 mA default start up modes.

**Size/weight:** 152 mm L x 70 mm W x 41 mm D (6.0 in L x 2.8 in W x 1.6 in D) 340g (12 oz)  
**Size/weight, with C10 holster:** 164 mm L x 75 mm W x 47 mm D (6.4 in L x 2.9 in W x 1.9 in D) 500g (18 oz)  
**Battery:** One 9V alkaline  
**Battery life:** 18 hours typical, at 12 mA  
**Warranty:** Three years

### General specifications

**Maximum voltage:** 30 volts

**Non-operating temperature:** -40°C to 60°C

**Operating temperature:** -10 °C to 55°C

**Relative humidity:** 0 to 90% (0 to 35°C); 0 to 70% (35 to 55°C)

**Operating altitude:** 3,000m max

**Shock and vibration:** Per MIL-T-28800 for a Class 2 Instrument

**Safety:** CSA C22.2 No. 1010.1:1992

**EMC:** EN50082-1:1992 and EN55022:1994 Class B

### Ordering information

#### Fluke 705 Loop Calibrator

Each calibrator includes: TL75 test leads, AC70 Test Clips, C-10 Holster, Instruction sheet appropriate to country of destination (English, French, German, Spanish, Italian, Dutch, Norwegian, Danish, Swedish, Finnish, Portuguese, Korean, Chinese, Japanese), CE and CSA markings.

### Summary specifications (18° to 28°C, one year)

Function	Range	Resolution	Accuracy
Voltage measure	0 to 28V	.001V	.025% Rdg + 1 LSD
mA measure	0 to 24 mA	.001 mA	.02% Rdg + 2 LSD
mA source*	0 to 24 mA	.010 mA	.02% Rdg + 2 LSD
Loop supply	24V dc	n/a	10%

Temperature Coefficient, -10 to 18°C, 28 to 55°C, ±.005% of range per °C;

\* Max load, 1000 Ohms; Max applied voltage for simulation, 30V

**Fluke. Keeping your world up and running.**

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