

709 / 709H Precision Loop Calibrators

FLUKE®

New



Fluke 709/709H

Fluke reliable. HART compatible.

The Fluke 709 and 709H mA loop calibrators are designed to save time and produce high-quality results. These calibrators are built around a user friendly interface with a Quick-Set rotary encoder knob. This tool reduces the time it takes to measure, or source, current and power up a loop. The protective holster easily fits into a technician's hand and the large backlit display is easy to read, even in dark, cramped worked areas.

In addition, the 709H offers:

- Logging of HART data in the field. Once recorded by the 709H in the field, the 709H/TRACK software can upload the HART configuration of up to (20) HART devices in your plant and output data in either (.csv) or (.txt) format.
- Data logged mA loop measurements and HART data can be recorded from a particular transmitter for troubleshooting and loop tuning. The data log feature offers selectable capture with recording intervals of 1 to 60 seconds and a logging capacity of 9800 records or 99 individual sessions. Each data sample contains the 709H mA measurement, all four process variables, and the standard status conditions.

Features

- Best-in-class accuracy at 0.01% reading
- Compact rugged design
- Intuitive user interface with Quick-Set knob for fast setup, easy use
- 24 V DC loop power with mA measure mode (-25% to 125%)
- Resolution of 1 μ A on mA ranges and 1 mV on voltages ranges
- Built in selectable 250 Ω resistor for HART communications
- Simple two wire connection for all measurements
- Auto shutdown to conserve battery life
- Variable step and ramp time in seconds
- Valve test (source and simulate defined mA values with % keys)

Specifications

Functions	mA source, mA simulate, mA read, mA read/loop power, and volts read
Ranges	mA (0 to 24mA) and Volts (0 to 30VDC)
Resolution	1 μ A on mA ranges and 1mV on voltage range
Accuracy	0.01% +/- 2 counts all ranges (@23° +/- 5°C)
Operating temperature Range	-10 °C to 55 °C
Humidity range	10 to 95% non-condensing
Stability	20ppm of F.S. /°C from -10°C to 18°C and 28°C to 55°C
Display	128 x 64 pixels, LCD Graphic w/backlight, .34" high digits
Loop Compliance Voltage	24VDC @ 20mA
Over-Voltage Protection	240VAC
Overload Current Protection	28mA DC
EMC	EN61326 Annex A (Portable Instruments)

Power: 6 AAA alkaline
Dimensions (HxWxD): 150 x 90 x 30 mm
Battery life: \geq 40 hours continuous use (measure mode using alkaline)

Weight: 0.3 kg
Warranty: Three years

Recommended Accessories



709H Track Software/cable



Included Accessories

Two AC175 alligator clips (709)
 TL75 test leads (709)
 Extended tooth alligator clip set (709H)
 75X-8014 stackable lead set (709H)
 TP220 test probes (709H)
 AC280 SureGrip™ hook clips (709H)
 HART cable (709H only)
 Soft case
 Six AAA batteries (installed)
 709/709H Product manual CD-ROM
 709/709H Quick reference guide
 709/709H Safety information

Ordering Information

Fluke 709 Precision Loop Calibrator
 Fluke 709H Precision HART Loop Calibrator