

# 707Ex

## FOR TESTING CURRENT LOOPS

### CERTIFICATION



II 2 G Ex ia IIC T4



N.I. Class 1 Div. 2 Groups A-D

### PRACTICAL

The fast, one-handed tool for loop checks in Ex zones. The 707Ex is a loop calibrator for use in ex-hazardous areas classified as Zone 1.

### TECHNICAL DATA

Ambient temperature	-10 °C to +50 °C
Storage temperature	-30 °C to +60 °C
Maximum voltage	28 Volt
Relative humidity	95 % (0 °C to +30 °C); 75 % (+30 °C to +40 °C); 45 % (-40 °C to +50 °C)
Power supply	1x 6LR61, type approved
Operating time	18 hours typical, at 12 mA
Dimensions (HxWxD)	164 x 75 x 47 mm (with holster)
Weight	350 g (with holster)

ZONE 1 / CLASS I DIV. 2



## Loop Calibrator FLUKE 707Ex FOR ZONE 1

### FEATURES & FUNCTIONS

- Large display and simple, quick click push rotary button for easy one-handed operation.
- Simultaneous mA and % readout for quick, easy, interpretation of readings.
- mA accuracy of 0.015 %
- 1 µA resolution for mA source, simulate and measure.
- Push button with 25 % steps for fast, easy linearity checks.
- 0-100 % "span check" for fast confirmation of zero and span.
- Internal loop supply, so you can power and read a transmitter at the same time.
- Measures up to 28 V dc.
- 0-20 mA or 4-20 mA default start up modes.
- HART® compatible resistance is connected in series with the loop supply for compatibility with HART® communicators.

### STANDARD DELIVERY

- 707Ex
- Ex-Holster
- Safety designed test leads
- Alligator test clips
- Battery
- CD-ROM
- Documentation

### SUMMARY SPECIFICATIONS (18 °C TO 28 °C)

Function	Range	Resolution	Accuracy
Measure voltage	0 to 28 V	0.001 V	±(0.015 % v. MW. +2 Digits)
Measure mA	0 to 24 mA	0.001 mA	±(0.015 % v. MW. +2 Digits)
Source mA <sup>1</sup>	0 to 24 mA	0.001 mA	±(0.015 % v. MW. +2 Digits)
Simulate mA <sup>2</sup>	0 to 24 mA	0.001 mA	±(0.015 % v. MW. +2 Digits)
Loop supply	24 V	n. z.	24 V ± 1 V DC

Temperature Coefficient, -10 to +18 °C, +28 to +55 °C: ± 0.005 % of range per °C;

<sup>1</sup> Max load, 700 Ohms at 20 mA

<sup>2</sup> Max applied voltage for simulation, 28 V