

Loop Calibrators

Low Cost Calibrator Muscle

Fluke 705

- 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.
- 0 - 20 mA or 4 - 20 mA default start up modes.

715 Volt/mA Calibrator

- Measure loop current (0-20 mA, 4-20 mA) signals with 0.015% accuracy and 0.001 mA resolution
- Measure voltage output process signals from PLCs, transmitters
- Source or simulate 24 mA loop current
- Source voltage to 100 mV or 10V
- 24V loop supply with simultaneous current measurement

Fluke 787

- DMM and loop calibrator in one tool
- Precision 1000V, 440 mA digital multimeter
- DC current source/loop calibrator
- Clear LCD with backlight; 4000 counts (30 000 counts for DC current)
- Externally accessible battery for easy battery changes
- 1000V overload protection on V, ohms, frequency
- Meets 1000 volt EN61010-1 CAT III standards
- Min/Max/Average/Hold/Relative modes



Features

Functions	705	715	787
Voltage measurement			
Range	0-28 V DC	0-100 mV 0-10 V	0-1000 V AC or DC
Resolution	1 mV	10 µV 1 mV	0.1 mV to 1.0 V
Accuracy	0.025% Rdg + 1 LSD	0.02% Rdg + 2 LSD	0.1% Rgd + 1 LSD (VDC)
Current measurement			
Range	0-24 mA	0-24 mA	0-1 A 0-30 mA
Resolution	0.001 mA	0.001 mA	1 mA 0.001 mA
Accuracy	0.02% + 2 LSD	0.015%	0.2%+2 LSD 0.05%+2 LSD
Current sourcing			
Range	0-20 mA or 4-20 mA ¹	0-20 mA or 4-20 mA ¹	0-20 mA or 4-20 mA ¹
Accuracy	0.025% Rdg + 2 LSD	0.015% + 2 LSD	0.05% of span
Drive capability	1000 Ω @ 24 mA	1000 Ω @ 24 mA	500 Ω @ 24 mA
Loop power while measuring mA	24 V	24 V	N/A
Voltage sourcing	N/A	0-100 mV or 0-10 V	N/A
Resistance measurement	N/A	N/A	to 40 MΩ, 0.2% + 1 LSD
Frequency	N/A	N/A	to 19.999 kHz, 0.005% + 1 LSD
Diode test	N/A	N/A	2.4 V shows diode voltage drop
Continuity	N/A	N/A	Beeps for resistance <100 ohms
Display current and % of span	Yes	mA or %	Yes
Auto step, auto ramp	Yes	No	Yes
Span Check	Yes	No	No
Battery life	18 hours typical, at 12 mA	18 hours typical, at 12 mA	50 hours typical, 12 hours sourcing 12 mA

¹ will over-range to 24 mA



Accessories and Ordering Information

Included Accessories:

FLUKE 705: C10 Protective Yellow Holster, TL75 Test Leads, AC70 Test Clips, Instruction Sheet (14 languages).

FLUKE 715: C81Y Protective Yellow Holster with Flex-Stand, Test Leads and Alligator Clips, Single 9V alkaline battery, Instruction Sheet (14 languages).

FLUKE 787: C81Y Protective Yellow Holster with Flex-Stand, TL75 Safety-Designed Test Lead Set plus AC70A Alligator Clips, one 9V alkaline battery, Users Manual.

Ordering information:

FLUKE 705 Loop Calibrator

FLUKE 715 Volt/mA Calibrator

FLUKE 787 ProcessMeter

Pub ID: 10034-eng

Rev. 02