Fluke 789 - ProcessMeter DMM and mA Loop Calibrator

The Fluke 789 combines a true-RMS digital multimeter with a milliamp loop calibrator and an internal 24-volt loop supply. It measures, sources and simulates process-loop current, with manual stepping and automatic ramping.

Manufacturer exact model specifications
Fluke 789/787B - Factory User Manual (PDF)
Fluke 787B/789 - Factory Technical Data (PDF)

Manufacturer	Fluke
Model	789
Voltage measurement	AC/DC up to 1,000 V
Safety category	CAT III 1,000 V / CAT IV 600 V
DC mA measurement range	30.000 mA
Current measurement	1.000 A range; 0.440 A continuous, 1 A for 30 seconds maximum
Resistance range	Up to 40 MOhm
Frequency measurement	0.5 Hz to 20 kHz; highest displayed range 19.999 kHz
Current source/simulate	0-20 or 4-20 mA; overrange to 24 mA
Current output accuracy	0.05% of span; reference conditions apply
Source drive capability	1,200 Ohm at 20 mA / 24 V compliance
Simulate loop supply	External 15-48 V
Loop power	24 V, 789 only
HART loop feature	Selectable built-in 250 Ohm resistor
Current adjustment	Coarse/fine, 25%/100% step; slow/fast ramp and 25% auto-step
Reference accuracy conditions	18-28 C; one year calibration interval; 5-minute warmup per user manual
Operating temperature	-20 to 55 C
Power	4 AA alkaline cells
Dimensions H x W x D	203 x 100 x 50 mm
Weight	600 g