

183/185 Digital Multimeters

The smartest meters

True-rms



New

Lifetime Warranty!

Keep your Fluke meter up and running

EN 61010-1

CAT III 1000V
CAT II 600V

The 180 Series are the only choice for users who simply want the best meter available.

The two entry-level models 183 and 185, with removable holsters, now bring 180 Series performance like AC+DC true RMS measurements, 50000 counts resolution and a 0.05% (0.07% for 183) basic DC accuracy within the reach of more customers. The extra large dual display with analog bargraph and backlight ensure that readings are easy to read under all circumstances. The units offer all measurements you can think of including dB, temperature and 4-20mA

with % readout on the 185. On top of this they offer Min-Max-Average recording with time stamp, up to 30 readings memories and a computer interface.

Safety Conformance

All inputs are protected to EN61010-1 CAT III 1000V/CAT IV 600V, CSA, VDE pending and TÜV listed.

Features

	183	185
True-rms measurements	AC, AC+DC	AC, AC+DC
Bandwidth (voltage/current)	20 kHz / 5kHz	20 kHz / 5kHz
Digital display counts (default/selectable)	5000 / 50000	5000 / 50000
Extra large multiple display with large digits and backlight	●	●
Analog bargraph segments	20-segments	20-segments
Min-Max-Average recording with relative time stamp	●	●
Fast Min-Max recording	1 msec	1 msec
Touch Hold® and Relative modes for reference and offset measurements	●	●
Temperature readings using optional K-type thermocouple and adapter		●
4-20mA process loop measurements with % readout		●
Audible continuity and diode test	●	●
Duty cycle measurements	●	●
PC interface for data exchange and closed case calibration	●	●
Readings memory (memory locations)	10	30
Easy battery exchange without opening the complete case	●	●
Removable protective holster	●	●

Specifications

Functions	Maximum	Max. resolution	183*	185*
Voltage DC	1000 V	10 µV	±(0.07%+1)	±(0.05%+1)
Voltage AC	1000V	10 µV	±(0.6%+2)	±(0.4%+2)
Current DC	10 A	0.01 µA	±(0.2%+2)	±(0.2%+2)
Current AC	10 A	0.01 µA	±(0.6%+2)	±(0.6%+2)
Resistance	50 MΩ	0.01 Ω	±(0.1%+2)	±(0.1%+2)
Capacitance	50000 µF	0.001 nF	±(1.0%+3)	±(1.0%+3)
Frequency	1 MHz	0.001 Hz	±(0.002%+1)	±(0.002%+1)
Temperature	-50°C/+980°C	0.1°C		± 1°C
dBm and dBV	-74/+60 dB	0.01 dB		± 0.1 dB

Accuracies are best accuracies for each function.

* 183 and 185 accuracy is stated for 5.000 counts and resolution for 50.000 counts. To determine 183 and 185 accuracy for 50.000 counts, multiply number of digits by 10 (e.g. VDC accuracy for 185 becomes (0.05% + 10) for 50.000 counts). To determine 183 and 185 resolution for 5.000 counts, multiply resolution by 10 (e.g. VDC resolution for 185 becomes 100 microV for 5.000 counts)

Battery Life : 100 hrs typical (alkaline)

Size (HxWxD) incl. holster : 203 mm x 97 mm x 51 mm

Weight : 675 g

Lifetime Warranty



pending

Accessories and Ordering Information

Included Accessories:

TL75 test leads, holster, alligator clips (185 only), 2 AA batteries installed, user manual, calibration certificate with measurement data.

Ordering information:

Fluke 183 True Rms Multimeter
Fluke 185 True Rms Multimeter
FVF-SC2 FlukeView Forms software 1.6 including interface cable.