

These features are available on all of the models in the range. The D05001 only differs from the D05000 in that it can be mains and battery powered. The D05002 has a lower current capability than both of the other models.

KEY FEATURE	DO5000	DO5001	DO5002
True 4 terminal measurement eliminates lead resistance errors	■	■	■
Measuring range from 3 milli ohm to 30 kilo ohm	■	■	
Measuring range from 200 milli ohm to 30 kilo ohm			■
10 micro ohm resolution			■
100 nano ohm resolution	■	■	■
True zero capabilities	■	■	■
Digital Calibration	■	■	■
Automatic temperature compensation with programmable coefficients	■	■	■
Open circuit lead warning LED	■	■	■
Current range from 10mA to 10A	■	■	■
Current range from 10 micro Amp to 10mA			
Programmable measuring current 10% to 100% in 1% steps	■	■	■
High Accuracy 0.03%	■	■	■
Fast measuring capability of 50 measurements per second	■	■	■
Programmable High Low Limits with red / green lamps on front panel	■	■	■
Open Circuit voltage limit mode 20mV / 50mV maximum	■	■	■
Measuring current selection +I / -I and Auto average	■	■	■
Data logging with statistical analysis	■	■	■
Cable length calculations	■	■	■
Rechargeable batteries built in		■	



DO5000/DO5001 SPECIFICATIONS

Range	Resolution	Minimum Current	Maximum Current	Accuracy at Full Rated Current
30kΩ	1Ω	10μA	100μA	±(0.03% Rdg +0.02% FS)
3kΩ	100mΩ	100μA	1mA	±(0.03% Rdg +0.01% FS)
300Ω	10mΩ	1mA	10mA	±(0.03% Rdg +0.01% FS)
30Ω	1mΩ	10mA	100mA	±(0.03% Rdg +0.01% FS)
3Ω	100μΩ	100mA	1A	±(0.03% Rdg +0.01% FS)
200mΩ	10μΩ	1A	10A	±(0.03% Rdg +0.01% FS)
30mΩ	1μΩ	1A	10A	±(0.03% Rdg +0.01% FS)
3mΩ	100nΩ	1A	10A	±(0.03% Rdg +0.02% FS)

DO5002 SPECIFICATIONS

Range	Resolution	Typical Current	Maximum Current	Accuracy at Full Rated Current
30kΩ	1Ω	10μA	100μA	±(0.03% Rdg +0.02% FS)
3kΩ	100mΩ	100μA	1mA	±(0.03% Rdg +0.01% FS)
300Ω	10mΩ	1mA	10mA	±(0.03% Rdg +0.01% FS)
30Ω	1mΩ	10mA	100mA	±(0.03% Rdg +0.01% FS)
3Ω	100μΩ	10mA	100m A	±(0.03% Rdg +0.01% FS)
200mΩ	10μΩ	10mA	100m A	±(0.03% Rdg +0.01% FS)

Measurement

4 terminal Kelvin/Thomson principle eliminates errors due to lead resistance

Display

LCD graphics panel with backlit 30,000 count

Ranges

8 automatic or manual selection

Terminals

4mm safety sockets

Working Temperature

0°C to +45°C rel. humidity 80% max. non-condensing

Storage Temperature

-20°C to +60°C

Mains Supply

115/230V +10% -10%
47Hz to 163Hz 20VA

Safety

EN 61010-1 EMC-EN 61236

Dimensions

339mm x 324mm x 131mm (W H D) approx

Mass

12kg approx. 12kg packed in carton

Auto Zero

Permits the zero of measurement values

Average

Automatic average and display of measurement with forward and reverse current

Auto Temperature Compensation

Automatically references measurement to temperature of 20°C or user defined temperature. User coefficients may be used. External Pt100 senses temperature manual value can be used

Hi / Lo Limits

Limit values can be set over entire measurement range

Calibration

Digital pass code protected

Protection

415 Vrms maximum at the measuring terminals will blow internal protection fuse

CODE ▾	ITEM ▾	DO5000 SERIES OPTIONS
C02	1 metre cable clamp with metal base for the precise measurement of 1 metre cable samples 0.1...100mm ²	
C02A	1 metre cable clamp with metal base for the precise measurement of 1 metre cable samples 1...1000mm ²	
C03	1 metre cable clamp with water bath for the precise measurement of 1 metre cable samples 1...1000mm ²	
DO500-CS	Calibration standard	
HS01-P	Duplex handspikes with 3 metre lead length	
HS02-P	Duplex handspikes with 3 and 15 metre lead length	
IEEE-DO5	Interface IEEE-488	
IEEE-L01	IEEE-488 cable 1 metre	
LS03-P	Lead set with 3 metre leads terminated in large Kelvin clips type KC3	
LS04-P	Lead set with 3 metre and 15 metre lead length terminated in large Kelvin clips type KC3	
LS05	Lead set with 4 x 1 metre leads terminated in banana plugs, 4 x Crocodile clips, 4 x test probes and 2 x Kelvin clips type KC1	
LS06-P	Lead set with 1 metre leads terminated in miniature Kelvin clips type KC2	
PLC-DO5	Interface PLC	
PT02-DO5	Temperature probe with 2 metre lead length	