DER EE Analog Multimeter

Analog Multimeter

DE-960TRN/961TRN/965TRN



DE-965TRN

FEATURES:

- Total Protection-patented design(perfectly fit for use of production line, work shop, DIY at home, education, amateur of hobby)
- Big shiny scale
- Stand Rack Attached For Reading Easily
- Taut Band Movement with unique feature to absorb vibration and non-friction to avoid the distortion of accuracy and a long-term life time.

TEMPERATURE / HUMIDITY:

- Operation:0°C~40°C(32°F~104°F) / below 80% R.H. (no condensation)
- Storage:-10°C~50°C(14°F ~ 122°F) / below 80% R.H. (no condensation)

ACCESSORIES:

DIMENSION & WEIGHT:

- ●152(L)x100(W)x38(H)mm (5.98"x3.93"x1.5")
- DE-960TRN Approx. 235g(0.52 lbs)
 DE-961TRN Approx. 240g(0.53 lbs)
 DE-965TRN Approx. 265g(0.58 lbs)
 (excluding Batteries)

SPECIFICATION: (23°C ± 5°C, 80% R.H. MAX.)

* arc:the angle of deflection

Measurement	Range	Accuracy			D1
		DE-960TRN	DE-961TRN	DE-965TRN	Remark
Movement		Taut Band	Taut Band	Taut Band	Taut Band : vibration resistance
DCV	0.1V 0.5V 2.5V 10V 50V 250V	Within ±3% F.S.	Within ±3% F.S.	Within ±3% F.S.	Input impedance 20kΩ/V
DCV NULL meter	0~±5V 0~±25V		Within ± 3% F.S.		0-centering meter type input impedance 40kΩ/
ACV	10V 50V 250V 1000V	Within±4% F.S.	Within±4% F.S.	Within ±4% F.S.	Input impedance 9kΩ/V
DCmA	50µA 2.5mA 25mA 250mA	Within±3% F.S.	Within±3% F.S.	Within ± 3% F.S.	Voltage drop 250mV (100mV for 50μA)
DCA	10A		Within ± 3% F.S.	Within ± 3% F.S.	
ACA	10A			Within ± 5% F.S.	15.
Buzzer	Conduct indicator (Buzzer is emitted at about 20Ω or less)	v	v	v	Power consumption approx. 150mA same as Ωx1 range
Resistance (Ω)	X1 :0~ 2kΩ Center 20Ω X10 :0~ 20kΩ Center 200Ω X100 :0~ 200kΩ Center 2kΩ X1K :0~ 2MΩ Center 20kΩ X1K :0~ 2MΩ Center 20kΩ X1K :0~ 20MΩ Center 20kΩ X10K :0~ 20MΩ Center 200kΩ X10K :0~ 20MΩ X10K :0~	Within ±3% of arc	Within ±3% of arc	Within ± 3% of arc	Batteries UM-3 (1.5V) X2 006P (9V) X1
Battery Test (BATT.)	0~1.5V GOOD-?-BAD Color-coded scale	WithinK5% of arc	Within ±5% of arc		Load current 1.5V 250mA 9V 25mA
	0~ 9V GOOD-?-BAD Color-coded scale	WithinK5% of arc			
dB	-10dB~+22dB(FOR 10VAC)~+62dB 0dB/0.775V (1mW through 600Ω)	Within ± 4% F.S.	Within ± 4% F.S.	Within ±4% F.S.	9kΩ /V
Leakage current (Iceo) (LI)	0~ 150µA at x 1K range 0~ 1.5mA at x 100 range 0~ 15mA at x 10 range 0~ 150mA at x 1 range	Within ±5% of arc	Within ±5% of arc	Within ±5% of arc	Current across terminal
Terminal to terminal Voltage (LV)	Common to each Ω range 3V-0V (Reverse of LI scale)	Within ±5% of arc	Within ± 5% of arc	Within ± 5% of arc	Voltage applied across terminal
DC Current amplification factor (hFE)	Transistor hFE : 0-1000 (in x 10Ω range) IC IB	Within ± 3% of arc	Within ±3% of arc	Within ±3% of arc	Insert hFE pin (on scale) directly
LED	in x 10Ω range	v	v	V	Insert ±LED pin (on scale) directly