

Elma 6660 Process Multimeter

Precise measurement and signal generation



A process multimeter is an indispensable tool for the industrial electrician or technician working with control and instrumentation, as it combines the common measurement functions of a multimeter with the process calibrator's capabilities to simulate signals and act as a source in passive circuits.

Elma 6660 is an advanced process multimeter in a robust and ergonomic design with a wealth of features, high accuracy, a backlit display, and a built-in flashlight.

The measurement functions include TRMS AC voltage and AC voltage with VFC filter for precise measurement on noisy circuits and circuits with variable voltage, DC voltage, resistance/continuity, diode test, capacitance, frequency, AC/DC current in mA, and temperature with thermocouple (e.g., type K) and RTD (e.g., PT100).

Elma 6660 can simulate signals in both active and passive circuits. In both cases, the 4-20 mA output signal can be set in increments of 25% and the current can be fine-tuned down to 0.001 mA; the step and ramp functions allow for automatic stepwise or smooth regulation of the output current. Passive circuits can be supplied 1-10 VDC, a frequency signal, resistance value, and thermocouple as well as RTD temperature signal with Elma 6660 as the source. Elma 6660 also has Loop power and 250 Ω HART function.

Elma 6660 is delivered ready to use in a pouch, including test leads with test probes, mini alligator clips, batteries, and manual.

Technical data:

Voltage Measurement, AC

Measurement range: 0.0001 V - 750.0 V
TRMS: Yes

Voltage Measurement, DC

Measurement range: 0.001 mV - 1000.0 V

Current Measurement, AC

Measurement range: 0.000 mA - 500.00 mA

Current Measurement, DC

Measurement range: 0.000 mA - 500.00 mA

Resistance measurement and continuity

check	
Measurement range:	0.01 Ω - 55.00 M Ω
Continuity check	
Modstand, max:	50 Ω
Indicator:	Acoustic
Frequency Measurement	
Measurement range:	0.0001 Hz - 10.000 kHz
Capacitance Measurement	
Måleområde:	0.00 nF - 1100 μ F
Simulering, el	
Udgangsspænding, DC:	0.00 mV - 11.000 V
Udgangsstrøm, DC:	0.000 mA - 33.000 mA
Udgangsfrekvens:	1.0 Hz - 11.0 kHz
Ekstern temperaturprobe, Type K	
Måleområde, Type K:	-200.0 °C - 1350.0 °C
Display	
Display:	Digital display, backlit
Standards and norms	
Instrument:	IEC/EN 61010-1,IEC/EN 61326-1
Safety category	
IEC 61010-1 measurement category:	CAT III 1000 V,CAT IV 600 V
Power supply	
Batteries:	2 x AA Alkaline (incl.)
IP Rating	
IP rating:	IP65
Dimensions	
H x W x D:	206 mm x 97 mm x 60 mm
Weight	
Net weight:	500 g

Related products

EAN	EL-NR	Product
5703317660077	6398910314	Temperature adaptor Type-K to 4mm banana plugs
5703317440273	6398586010	TP01 type K wire sensor
5703534830307	8798324045	Set of test leads with changeable 2/4mm tips