



SCHEDA TECNICA • DATA SHEET • DATENBLATT • FICHA TÉCNICA

M12

Multimetro digitale compatto TRMS in autorange, 6000 conteggi, CAT III 600 V. / Compact 6000-count TRMS autorange digital multimeter, CAT III 600 V.



Italiano • English • Deutsch • Español

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ITALIANO

M12

SCHEMA TECNICA

Multimetro digitale compatto TRMS in autorange, 6000 conteggi, CAT III 600 V.

FUNZIONI PRINCIPALI

- TRMS
- Autorange
- MAX/MIN
- REL
- HOLD
- Filtro VFD / VFD low-pass filter
- NCV + LIVE
- Tensione AC/DC e mV
- Corrente AC/DC uA/mA/10A
- Resistenza
- Continuità
- Diodo
- Capacità
- Frequenza
- Duty Cycle
- Torcia
- Retroilluminazione
- Auto Power Off
- 6000 conteggi + bargraph

SPECIFICHE GENERALI

Categoria	IEC/EN 61010-1 CAT III 600 V; grado di inquinamento 2
Altitudine	< 2000 m
Ambiente operativo	0...40 °C, RH <80%
Stoccaggio	-10...60 °C, RH <70%; rimuovere batterie
Tensione max terminale-terra	600 V DC o AC RMS
Campionamento	circa 3 letture/s
Display	6000 conteggi; OL fuori scala

Auto Power Off	circa 10 min
Batteria	2 x AAA 1,5 V
Dimensioni	166 x 78 x 64 mm
Peso	circa 268 g

PRESTAZIONI DI MISURA

Tensione AC

Range	Risoluzione	Accuratezza / Note
60 mV	10 μ V	$\pm(0,8\% \text{ lettura} + 3 \text{ cifre})$
600 mV	100 μ V	$\pm(0,8\% + 3)$
6 V	1 mV	$\pm(0,8\% + 3)$
60 V	10 mV	$\pm(0,8\% + 3)$
600 V	100 mV	$\pm(0,8\% + 3); 40 \text{ Hz} \dots 1 \text{ kHz}$

Tensione DC

Range	Risoluzione	Accuratezza / Note
60 mV	10 μ V	$\pm(0,5\% \text{ lettura} + 3 \text{ cifre})$
600 mV	100 μ V	$\pm(0,5\% + 3)$
6 V	1 mV	$\pm(0,5\% + 3)$
60 V	10 mV	$\pm(0,5\% + 3)$
600 V	100 mV	$\pm(0,5\% + 3)$

Resistenza

Range	Risoluzione	Accuratezza / Note
600 Ω	0,1 Ω	$\pm(1,2\% + 5)$
6 k Ω	1 Ω	$\pm(1,2\% + 5)$
60 k Ω	10 Ω	$\pm(1,2\% + 5)$
600 k Ω	100 Ω	$\pm(1,2\% + 5)$
6 M Ω	1 k Ω	$\pm(1,2\% + 5)$
60 M Ω	10 k Ω	$\pm(2,0\% + 5)$

Capacità

Range	Risoluzione	Accuratezza / Note
10 nF	0,01 nF	$\pm(3,0\% + 5)$
100 nF	0,1 nF	$\pm(3,0\% + 5)$
1 μ F	0,001 μ F	$\pm(3,0\% + 5)$
10 μ F	0,01 μ F	$\pm(3,0\% + 5)$
100 μ F	0,1 μ F	$\pm(3,0\% + 5)$
1 mF	0,001 mF	$\pm(4,0\% + 5)$
10 mF	0,01 mF	$\pm(4,0\% + 5)$
100 mF	0,1 mF	$\pm(5,0\% + 5)$

Frequenza

Range	Risoluzione	Accuratezza / Note
10 Hz	0,001 Hz	$\pm(1,0\% + 5)$
100 Hz	0,01 Hz	$\pm(1,0\% + 5)$

Range	Risoluzione	Accuratezza / Note
1 kHz	0,1 Hz	$\pm(1,0\% + 5)$
10 kHz	1 Hz	$\pm(1,0\% + 5)$
100 kHz	10 Hz	$\pm(1,0\% + 5)$
1 MHz	100 Hz	$\pm(1,0\% + 5)$
10 MHz	1 kHz	$\pm(1,0\% + 5)$; min input 200 mV RMS

Duty Cycle

Range	Risoluzione	Accuratezza / Note
1...99%	0,1%	$\pm(3,0\% + 5)$

Corrente AC

Range	Risoluzione	Accuratezza / Note
600 μ A	0,1 μ A	$\pm(1,0\% + 5)$
6 mA	1 μ A	$\pm(1,0\% + 3)$
60 mA	10 μ A	$\pm(1,0\% + 3)$
600 mA	100 μ A	$\pm(1,2\% + 3)$
6 A	1 mA	$\pm(1,5\% + 3)$
10 A	10 mA	$\pm(1,5\% + 3)$; 40 Hz...1 kHz

Corrente DC

Range	Risoluzione	Accuratezza / Note
600 μ A	0,1 μ A	$\pm(0,8\% + 3)$
6 mA	1 μ A	$\pm(0,8\% + 3)$
60 mA	10 μ A	$\pm(0,8\% + 3)$
600 mA	100 μ A	$\pm(1,0\% + 3)$
6 A	1 mA	$\pm(1,2\% + 3)$
10 A	10 mA	$\pm(1,2\% + 3)$

Diodo / Continuità

Range	Risoluzione	Accuratezza / Note
Diodo	-	visualizzazione caduta diretta; circuito aperto $> \sim 2$ V
Continuità	-	cicalino sotto ~ 30 Ω ; circuito aperto < 1 V

ACCESSORI IN DOTAZIONE

- UNI99 test leads CAT III 1000 V
- UNI616 carrying bag
- 2 x AAA 1.5 V

ENGLISH

M12

DATA SHEET

Compact 6000-count TRMS autorange digital multimeter, CAT III 600 V.

MAIN FUNCTIONS

- TRMS
- Autorange
- MAX/MIN
- REL
- HOLD
- Filter VFD / VFD low-pass filter
- NCV + LIVE
- Voltage AC/DC e mV
- Current AC/DC uA/mA/10A
- Resistance
- Continuity
- Diode
- Capacitance
- Frequency
- Duty Cycle
- Torcia
- Backlight
- Auto Power Off
- 6000 conteggi + bargraph

GENERAL SPECIFICATIONS

Category	IEC/EN 61010-1 CAT III 600 V; grado di inquinamento 2
Altitude	< 2000 m
Ambiente operativo	0...40 °C, RH <80%
Storage	-10...60 °C, RH <70%; rimuovere batterie
Tensione max terminale-terra	600 V DC o AC RMS
Sampling	circa 3 letture/s
Display	6000 conteggi; OL fuori scala

Auto Power Off	circa 10 min
Battery	2 x AAA 1,5 V
Dimensioni	166 x 78 x 64 mm
Peso	circa 268 g

MEASUREMENT PERFORMANCE

AC voltage

Range	Resolution	Accuracy / Notes
60 mV	10 μ V	$\pm(0,8\%$ lettura + 3 cifre)
600 mV	100 μ V	$\pm(0,8\%$ +3)
6 V	1 mV	$\pm(0,8\%$ +3)
60 V	10 mV	$\pm(0,8\%$ +3)
600 V	100 mV	$\pm(0,8\%$ +3); 40 Hz...1 kHz

DC voltage

Range	Resolution	Accuracy / Notes
60 mV	10 μ V	$\pm(0,5\%$ lettura + 3 cifre)
600 mV	100 μ V	$\pm(0,5\%$ +3)
6 V	1 mV	$\pm(0,5\%$ +3)
60 V	10 mV	$\pm(0,5\%$ +3)
600 V	100 mV	$\pm(0,5\%$ +3)

Resistance

Range	Resolution	Accuracy / Notes
600 Ω	0,1 Ω	$\pm(1,2\%$ +5)
6 k Ω	1 Ω	$\pm(1,2\%$ +5)
60 k Ω	10 Ω	$\pm(1,2\%$ +5)
600 k Ω	100 Ω	$\pm(1,2\%$ +5)
6 M Ω	1 k Ω	$\pm(1,2\%$ +5)
60 M Ω	10 k Ω	$\pm(2,0\%$ +5)

Capacitance

Range	Resolution	Accuracy / Notes
10 nF	0,01 nF	$\pm(3,0\%$ +5)
100 nF	0,1 nF	$\pm(3,0\%$ +5)
1 μ F	0,001 μ F	$\pm(3,0\%$ +5)
10 μ F	0,01 μ F	$\pm(3,0\%$ +5)
100 μ F	0,1 μ F	$\pm(3,0\%$ +5)
1 mF	0,001 mF	$\pm(4,0\%$ +5)
10 mF	0,01 mF	$\pm(4,0\%$ +5)
100 mF	0,1 mF	$\pm(5,0\%$ +5)

Frequency

Range	Resolution	Accuracy / Notes
10 Hz	0,001 Hz	$\pm(1,0\%$ +5)
100 Hz	0,01 Hz	$\pm(1,0\%$ +5)

Range	Resolution	Accuracy / Notes
1 kHz	0,1 Hz	$\pm(1,0\% +5)$
10 kHz	1 Hz	$\pm(1,0\% +5)$
100 kHz	10 Hz	$\pm(1,0\% +5)$
1 MHz	100 Hz	$\pm(1,0\% +5)$
10 MHz	1 kHz	$\pm(1,0\% +5)$; min input 200 mV RMS

Duty Cycle

Range	Resolution	Accuracy / Notes
1...99%	0,1%	$\pm(3,0\% +5)$

AC current

Range	Resolution	Accuracy / Notes
600 μ A	0,1 μ A	$\pm(1,0\% +5)$
6 mA	1 μ A	$\pm(1,0\% +3)$
60 mA	10 μ A	$\pm(1,0\% +3)$
600 mA	100 μ A	$\pm(1,2\% +3)$
6 A	1 mA	$\pm(1,5\% +3)$
10 A	10 mA	$\pm(1,5\% +3)$; 40 Hz...1 kHz

DC current

Range	Resolution	Accuracy / Notes
600 μ A	0,1 μ A	$\pm(0,8\% +3)$
6 mA	1 μ A	$\pm(0,8\% +3)$
60 mA	10 μ A	$\pm(0,8\% +3)$
600 mA	100 μ A	$\pm(1,0\% +3)$
6 A	1 mA	$\pm(1,2\% +3)$
10 A	10 mA	$\pm(1,2\% +3)$

Diode / continuity

Range	Resolution	Accuracy / Notes
Diodo	-	visualizzazione caduta diretta; circuito aperto $>\sim 2$ V
Continuità	-	cicalino sotto ~ 30 Ω ; circuito aperto <1 V

INCLUDED ACCESSORIES

- UNI99 test leads CAT III 1000 V
- UNI616 carrying bag
- 2 x AAA 1.5 V

DEUTSCH

M12

DATENBLATT

Kompaktes TRMS-Autorange-Digitalmultimeter mit 6000 Counts, CAT III 600 V.

HAUPTFUNKTIONEN

- TRMS
- Autorange
- MAX/MIN
- REL
- HOLD
- Filter VFD / VFD low-pass filter
- NCV + LIVE
- Spannung AC/DC e mV
- Strom AC/DC uA/mA/10A
- Widerstand
- Durchgang
- Diode
- Kapazität
- Frequenz
- Duty Cycle
- Torcia
- Hintergrundbeleuchtung
- Auto Power Off
- 6000 conteggi + bargraph

ALLGEMEINE DATEN

Kategorie	IEC/EN 61010-1 CAT III 600 V; grado di inquinamento 2
Höhe	< 2000 m
Ambiente operativo	0...40 °C, RH <80%
Lagerung	-10...60 °C, RH <70%; rimuovere batterie
Tensione max terminale-terra	600 V DC o AC RMS
Abtastrate	circa 3 letture/s
Anzeige	6000 conteggi; OL fuori scala

Auto Power Off	circa 10 min
Batterie	2 x AAA 1,5 V
Dimensioni	166 x 78 x 64 mm
Peso	circa 268 g

MESSLEISTUNG

AC-Spannung

Bereich	Auflösung	Genauigkeit / Hinweise
60 mV	10 μ V	$\pm(0,8\% \text{ lettura} + 3 \text{ cifre})$
600 mV	100 μ V	$\pm(0,8\% + 3)$
6 V	1 mV	$\pm(0,8\% + 3)$
60 V	10 mV	$\pm(0,8\% + 3)$
600 V	100 mV	$\pm(0,8\% + 3)$; 40 Hz...1 kHz

DC-Spannung

Bereich	Auflösung	Genauigkeit / Hinweise
60 mV	10 μ V	$\pm(0,5\% \text{ lettura} + 3 \text{ cifre})$
600 mV	100 μ V	$\pm(0,5\% + 3)$
6 V	1 mV	$\pm(0,5\% + 3)$
60 V	10 mV	$\pm(0,5\% + 3)$
600 V	100 mV	$\pm(0,5\% + 3)$

Widerstand

Bereich	Auflösung	Genauigkeit / Hinweise
600 Ω	0,1 Ω	$\pm(1,2\% + 5)$
6 k Ω	1 Ω	$\pm(1,2\% + 5)$
60 k Ω	10 Ω	$\pm(1,2\% + 5)$
600 k Ω	100 Ω	$\pm(1,2\% + 5)$
6 M Ω	1 k Ω	$\pm(1,2\% + 5)$
60 M Ω	10 k Ω	$\pm(2,0\% + 5)$

Kapazität

Bereich	Auflösung	Genauigkeit / Hinweise
10 nF	0,01 nF	$\pm(3,0\% + 5)$
100 nF	0,1 nF	$\pm(3,0\% + 5)$
1 μ F	0,001 μ F	$\pm(3,0\% + 5)$
10 μ F	0,01 μ F	$\pm(3,0\% + 5)$
100 μ F	0,1 μ F	$\pm(3,0\% + 5)$
1 mF	0,001 mF	$\pm(4,0\% + 5)$
10 mF	0,01 mF	$\pm(4,0\% + 5)$
100 mF	0,1 mF	$\pm(5,0\% + 5)$

Frequenz

Bereich	Auflösung	Genauigkeit / Hinweise
10 Hz	0,001 Hz	$\pm(1,0\% + 5)$
100 Hz	0,01 Hz	$\pm(1,0\% + 5)$

Bereich	Auflösung	Genauigkeit / Hinweise
1 kHz	0,1 Hz	$\pm(1,0\% + 5)$
10 kHz	1 Hz	$\pm(1,0\% + 5)$
100 kHz	10 Hz	$\pm(1,0\% + 5)$
1 MHz	100 Hz	$\pm(1,0\% + 5)$
10 MHz	1 kHz	$\pm(1,0\% + 5)$; min input 200 mV RMS

Duty Cycle

Bereich	Auflösung	Genauigkeit / Hinweise
1...99%	0,1%	$\pm(3,0\% + 5)$

AC-Strom

Bereich	Auflösung	Genauigkeit / Hinweise
600 μ A	0,1 μ A	$\pm(1,0\% + 5)$
6 mA	1 μ A	$\pm(1,0\% + 3)$
60 mA	10 μ A	$\pm(1,0\% + 3)$
600 mA	100 μ A	$\pm(1,2\% + 3)$
6 A	1 mA	$\pm(1,5\% + 3)$
10 A	10 mA	$\pm(1,5\% + 3)$; 40 Hz...1 kHz

DC-Strom

Bereich	Auflösung	Genauigkeit / Hinweise
600 μ A	0,1 μ A	$\pm(0,8\% + 3)$
6 mA	1 μ A	$\pm(0,8\% + 3)$
60 mA	10 μ A	$\pm(0,8\% + 3)$
600 mA	100 μ A	$\pm(1,0\% + 3)$
6 A	1 mA	$\pm(1,2\% + 3)$
10 A	10 mA	$\pm(1,2\% + 3)$

Diode / Durchgang

Bereich	Auflösung	Genauigkeit / Hinweise
Diodo	-	visualizzazione caduta diretta; circuito aperto $> \sim 2$ V
Continuità	-	cicalino sotto ~ 30 Ω ; circuito aperto < 1 V

LIEFERUMFANG

- UNI99 test leads CAT III 1000 V
- UNI616 carrying bag
- 2 x AAA 1.5 V

ESPAÑOL

M12

FICHA TÉCNICA

Multímetro digital compacto TRMS autorango de 6000 cuentas, CAT III 600 V.

FUNCIONES PRINCIPALES

- TRMS
- Autorange
- MAX/MIN
- REL
- HOLD
- Filtro VFD / VFD low-pass filter
- NCV + LIVE
- Tensión AC/DC e mV
- Corriente AC/DC uA/mA/10A
- Resistencia
- Continuidad
- Diodo
- Capacidad
- Frecuencia
- Duty Cycle
- Torcia
- Retroiluminación
- Auto Power Off
- 6000 conteggi + bargraph

ESPECIFICACIONES GENERALES

Categoría	IEC/EN 61010-1 CAT III 600 V; grado di inquinamento 2
Altitud	< 2000 m
Ambiente operativo	0...40 °C, RH <80%
Almacenamiento	-10...60 °C, RH <70%; rimuovere batterie
Tensione max terminale-terra	600 V DC o AC RMS
Muestreo	circa 3 letture/s
Pantalla	6000 conteggi; OL fuori scala

Auto Power Off	circa 10 min
Batería	2 x AAA 1,5 V
Dimensioni	166 x 78 x 64 mm
Peso	circa 268 g

PRESTACIONES DE MEDIDA

Tensión AC

Rango	Resolución	Precisión / Notas
60 mV	10 μ V	$\pm(0,8\% \text{ lettura} + 3 \text{ cifre})$
600 mV	100 μ V	$\pm(0,8\% + 3)$
6 V	1 mV	$\pm(0,8\% + 3)$
60 V	10 mV	$\pm(0,8\% + 3)$
600 V	100 mV	$\pm(0,8\% + 3)$; 40 Hz...1 kHz

Tensión DC

Rango	Resolución	Precisión / Notas
60 mV	10 μ V	$\pm(0,5\% \text{ lettura} + 3 \text{ cifre})$
600 mV	100 μ V	$\pm(0,5\% + 3)$
6 V	1 mV	$\pm(0,5\% + 3)$
60 V	10 mV	$\pm(0,5\% + 3)$
600 V	100 mV	$\pm(0,5\% + 3)$

Resistencia

Rango	Resolución	Precisión / Notas
600 Ω	0,1 Ω	$\pm(1,2\% + 5)$
6 k Ω	1 Ω	$\pm(1,2\% + 5)$
60 k Ω	10 Ω	$\pm(1,2\% + 5)$
600 k Ω	100 Ω	$\pm(1,2\% + 5)$
6 M Ω	1 k Ω	$\pm(1,2\% + 5)$
60 M Ω	10 k Ω	$\pm(2,0\% + 5)$

Capacidad

Rango	Resolución	Precisión / Notas
10 nF	0,01 nF	$\pm(3,0\% + 5)$
100 nF	0,1 nF	$\pm(3,0\% + 5)$
1 μ F	0,001 μ F	$\pm(3,0\% + 5)$
10 μ F	0,01 μ F	$\pm(3,0\% + 5)$
100 μ F	0,1 μ F	$\pm(3,0\% + 5)$
1 mF	0,001 mF	$\pm(4,0\% + 5)$
10 mF	0,01 mF	$\pm(4,0\% + 5)$
100 mF	0,1 mF	$\pm(5,0\% + 5)$

Frecuencia

Rango	Resolución	Precisión / Notas
10 Hz	0,001 Hz	$\pm(1,0\% + 5)$
100 Hz	0,01 Hz	$\pm(1,0\% + 5)$

Rango	Resolución	Precisión / Notas
1 kHz	0,1 Hz	$\pm(1,0\% +5)$
10 kHz	1 Hz	$\pm(1,0\% +5)$
100 kHz	10 Hz	$\pm(1,0\% +5)$
1 MHz	100 Hz	$\pm(1,0\% +5)$
10 MHz	1 kHz	$\pm(1,0\% +5)$; min input 200 mV RMS

Duty Cycle

Rango	Resolución	Precisión / Notas
1...99%	0,1%	$\pm(3,0\% +5)$

Corriente AC

Rango	Resolución	Precisión / Notas
600 μ A	0,1 μ A	$\pm(1,0\% +5)$
6 mA	1 μ A	$\pm(1,0\% +3)$
60 mA	10 μ A	$\pm(1,0\% +3)$
600 mA	100 μ A	$\pm(1,2\% +3)$
6 A	1 mA	$\pm(1,5\% +3)$
10 A	10 mA	$\pm(1,5\% +3)$; 40 Hz...1 kHz

Corriente DC

Rango	Resolución	Precisión / Notas
600 μ A	0,1 μ A	$\pm(0,8\% +3)$
6 mA	1 μ A	$\pm(0,8\% +3)$
60 mA	10 μ A	$\pm(0,8\% +3)$
600 mA	100 μ A	$\pm(1,0\% +3)$
6 A	1 mA	$\pm(1,2\% +3)$
10 A	10 mA	$\pm(1,2\% +3)$

Diodo / continuidad

Rango	Resolución	Precisión / Notas
Diodo	-	visualizzazione caduta diretta; circuito aperto $> \sim 2$ V
Continuità	-	cicalino sotto ~ 30 Ω ; circuito aperto < 1 V

ACCESORIOS INCLUIDOS

- UNI99 test leads CAT III 1000 V
- UNI616 carrying bag
- 2 x AAA 1.5 V