

Date d'édition : 12.09.2026

Ref : 727231

Multifunction meter

Multi-functional meter

The multi-functional meter is an all-purpose electronic meter for the measurement and monitoring of all important parameters for three-phase mains. The LC display with background lighting allows for reliable readings with no glare to be made even from long distance. A clear user interface and direct display of the functions used for all measurements are characteristic of the instrument. With integrated active and reactive power meters.

Measurement system:

- True-RMS measurement up to the 31st harmonic
- 2 and 4 quadrant measurement (programmable)
- 12bit A/D converter (6-channel)
- Continuous sampling of voltage and current waveforms (64 sampling per period, with PLL)

Accuracy of Measurement:

Voltage:	0,5% of reading +/- 1 digit from 40 to 300V, min. reading: 10V
Current:	0,5% of reading +/- 1 digit from 0,02 to 1,2A or from 1,2 to 6A (2 scales), min. reading: 10mA
Frequency:	0,02Hz from 45 to 65 Hz
Power:	1% of reading +/- 1 digit
Active Energy:	Class 1 complying with IEC EN 62053-21
Active Energy:	Class B EN50470-3
Reactive Energy:	Class 2 complying with IEC EN 62053-23
Measured Value	

Phase to Neutral Voltage THD, ULN1
 Phase to Neutral Voltage THD, ULN2
 Phase to Neutral Voltage THD, ULN3
 Phase to Phase Voltage THD, UL12
 Phase to Phase Voltage THD, UL23
 Phase to Phase Voltage THD, UL31
 Phase Current, THD IL1
 Phase Current, THD IL2
 Phase Current, THD IL3
 Frequency of, U1N
 Phase to Neutral Voltage RMS UL1N
 Phase to Neutral Voltage, RMS UL2N
 Phase to Neutral Voltage, RMS UL3N
 Phase to Phase Voltage, RMS UL12
 Phase to Phase Voltage, RMS UL23
 Phase to Phase Voltage, RMS UL31
 Phase Current, MS IL1
 Phase Current, RMS IL2
 Phase Current, RMS IL3
 Neutral Current, RMS Amplitude IN
 Phase Active Power, P1
 Phase Active Power, P2
 Phase Active Power, P3
 Phase Reactive Power, Q1
 Phase Reactive Power, Q2
 Phase Reactive Power, Q3
 Phase Apparent Power, S1

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Phase Apparent Power, S2
Phase Apparent Power, S3
Phase Power Factor, PF1
Phase Power Factor, PF2
Phase Power Factor, PF3
Phase to Neutral Voltage Mean THD, ULN
Ph