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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

SYSTEMES DIDACTIQUES s.a.r.l.

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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