

Automatic Current and Potential Transformer Test - Set

Series - W

Metrology version



- For testing of ratio error and phase displacement of instrument transformers
- Broad range of corrections
- Display of the results in all accepted dimensions
- Remote control and data transfer via RS232 interface
- Measures also electronic transformers
- Variants
 - WD-SM for CT and PT
 - WI-SM for CT
 - WU-SM for PT

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Technical Specifications**Automatic Current and Potential Transformer Testing Instrument****Type WD-SM00****Current Transformer test part**

Nominal currents of the CT to be tested (X)	5, 2, and 1 A
Nominal Current of the standard CT (N)	5 A
Matching	0.5 ... 1.6
Working range	1 ... 210% of nominal current
Frequency	50 and 60 Hz
Measuring range ratio error	± 20 %
Resolution ratio error	0.0001 % (1 ppm)
Measuring range phase angle	± 200 crad
Resolution phase angle	0.0001 Min or 1 µrad
Uncertainty of ratio measurement	± 10 ppm ± 0.5% of reading
Uncertainty of phase measurement	± 10 µrad ± 0.5% of reading
Inherent burden N-Side	< 20mΩ
Inherent burden X-Side	30mΩ/5A , 80 mΩ/2A, 200mΩ/1A
Resolution current measurement	0.001 % / 0.0001A
Uncertainty current measurement	± 0.5% reading ± 1% of range

Potential Transformer test part

Nominal voltage of the PT to be tested (X)	30 ... 350 V with factors 1, 1/2, 1/3, 1/√3
Nominal voltage of the standard PT (N)	30 ... 350 V with factors 1, 1/2, 1/3, 1/√3
Matching	0.5 ... 1.6
Input voltage range N and X	1 V ... 350 V
Frequency	50 and 60 Hz
Measuring range ratio error	± 20 %
Resolution ratio error	0.0001 % (1 ppm)
Measuring range phase angle	± 200 crad
Resolution phase angle	0.01 Min or 1 µrad
Uncertainty of ratio measurement	± 50 ppm ± 1% of reading
Uncertainty of phase measurement	± 50 µrad ± 1 % of reading
Inherent burden of X- and N-Side	30 kΩ ... 110 kΩ
Resolution voltage measurement	0.1 % / 1 V
Uncertainty voltage measurement	± 1% reading ± 1% of range

Reference conditions

Temperature	23°C ± 2°C
Humidity	45 ... 75 %
Air pressure	101.3 kPa

Rated range of use

according to IEC 359	
Temperature	5°C ... 40°C
Humidity, not condensing	10 ... 90 %
Air pressure	70 ... 106 kPa
Dimensions (W, D, H)	449 x 446 x 177 mm 19" x 4U
Weight	15 kg, 33 lbs
Power mains	115/230V 50/60Hz 50VA