

Automatic Current and Potential Transformer Test - Set

Series - W Standard 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
- Variants
 - WD-ST for CT and PT
 - WI-ST for CT
 - WU-ST for PT

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Technical Specifications**Automatic Current and Potential Transformer Testing Instrument****Type WD-ST00****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	0.001 %
Measuring range phase angle	± 200 crad
Resolution phase angle	0.001 Min or 10 µrad
Uncertainty of ratio measurement	± 100 ppm ± 1 % of reading
Uncertainty of phase measurement	± 100 µrad ± 1 % of reading
Inherent burden N-Side	< 20 mΩ
Inherent burden X-Side	< 35 mΩ / 5 A, < 50 mΩ / 2 A, < 100 mΩ / 1 A
Resolution current measurement	0.1 % / 0.001 A
Uncertainty current measurement	± 1 % 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
Working range	1 ... 210 % of nominal current
Input voltage range N and X	1 V ... 350 V
Frequency	50 and 60 Hz
Measuring range ratio error	± 20 %
Resolution ratio error	0.001 %
Measuring range phase angle	± 200 crad
Resolution phase angle	0.001 Min or 10 µrad
Uncertainty of ratio measurement	± 100 ppm ± 1 % of reading
Uncertainty of phase measurement	± 100 µrad ± 1 % of reading
Inherent burden of X- and N-Side	30 kΩ ... 110 kΩ
Resolution voltage measurement	0.1 % / 0.01 kV
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
Dimension	19" x 4U
Weight	15 kg, 33 lbs
Power mains	110/230V 50/60Hz 50VA