

SUWI-120 SERIES Multifunction Substation Test Set

www.hightest.co.uk



SUWI-120 SERIES: MULTIFUNCTION SUBSTATION TEST SET

SUWI-120 series stands as a versatile testing instrument meticulously crafted to evaluate the performance of power and control apparatus within substations.

It encompasses an array of essential tests, including the precise assessment of Relay Timing, the determination of a Transformer's Turns Ratio, the scrutiny of Circuit Breaker Contact Resistance and Timing, as well as the examination of MCBs, among other critical functions.

This all-encompassing substation testing device has earned the name SUWI, from our belief in its skills as a Substation Wizard.

RELAY TIMING MEASUREMENT

The SUWI instrument can automatically test over-current, over-voltage, directional overcurrent relays and frequency control relays.

SUWI has an adjustable output current up to 110A AC / 120A DC and an adjustable output voltage to 150V AC / 220V DC. It has four universal input modules.

PROTECTION SYSTEM: HV-MV LINES

TURNS RATIO MEASUREMENT

Employing elements of performance tests specified in the ANSI/IEEE C57.12.90 standard, the instrument performs transformer ratio measurements to a precision of 0.08 % across a ratio range of 0.8 to 10,000.

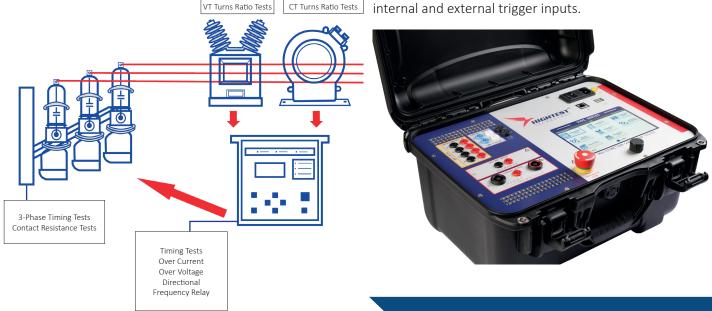
SUWI also measures phase angle and polarity, and it can generate 1V, 4V, 10V, 40V and 100V AC test voltages to facilitate the measurement of the turns ratio for current, voltage and power transformers.

CONTACT RESISTANCE / LOW RESISTANCE MEASUREMENT

SUWI has an adjustable output DC current up to 120 Amps which facilitates the measurement of contact resistance of a circuit breaker, a shunt or disconnector. SUWI-120 can measure resistance up to 5 Ω , with a resolution of 0.01 $\mu\Omega$.

CIRCUIT BREAKER TIMING

Contact Timing Tests are performed to determine a breaker's contact performance against its manufactured specifications. The timing for a breaker's operation such as OPEN, CLOSE, OPEN-CLOSE, CLOSE-OPEN and OPEN-CLOSE-OPEN are measured for all three-phases simultaneously. SUWI can perform 3-phase circuit breaker timing test cycles as described above along with coil current measurements using internal and external trigger inputs.



TECHNICAL SPECIFICATIONS

internet internet measurement, internal and external trigger operations) Current Outputs Up to 110 A A C (magnitude and frequency adjustable) Voltage Outputs 200 V C (magnitude and frequency adjustable) unversal input Module: input module: Binary wer/dry Up to 300 V AC/D collage measurement Innov Module: Ratio Measurement Mode CT Mode T Mode (single Phase and Three-Phase) Test Voltages CT Mode: 1 V and 4 V ; PT Mode 1, 0, 40 & 00 V Ratio Ange 0.8 - 10,000 Measurement Modes StaticResistance Measurement Matos Range 0.8 - 10,000 Measurement Modes StaticResistance Measurement Measurement Modes StaticResistance Measurement Measurement Modes StaticResistance Measurement Measurement Modes Contract TERSISTANCE/LOW RESISTANCE MEASUREMENT FEATURES Measurement Modes Contract Timing (O, C, C, C, C, O & O, C-O); Coll Current Measurement, Internal and External Trigger Operations Timing Accuracy 0.95% rdg + 0.1 ms Output S Current Measurement, Internal And External Trigger Operations Timing Accuracy 0.4, 30.0 V C or AC _{pesk} Timing Accuracy 0.95% rdg + 0.1 ms Output S Current Measurement, Internal and External Trigger Operations Timing Accuracy 0.4, 30.0 V C or AC _{pesk}		
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Current Outputs Up to 120 A D C Voltage Outputs 150 V AC (magnitude and frequency adjustable) 20 V DC Universal Input Modules Input module; Binary wer/dry Up to 300 V AC/DC voltage measurement Ratio Measurement Modes CT Mode FM Mode (Single-Phase and Three-Phase) Test Voltages CT Mode: 1, 4, 10, 40 & 100 V Ratio Measurement Modes StaticResistance Measurement CONTACT RESISTANCE/LOW RESISTANCE MEASUREMENT FEATURES Measurement Modes StaticResistance Measurement Auto Test Mode Ves Test Current Up to 120 A DC Measurement Modes Up to 120 A DC Measurement Range Up to 120 A DC Measurement Parameters Contact Timing (O, C, O-C, C-O & O-C-O); Col Current Measurement, Internal and External Trigger Operations Timing Accuracy 005% rdg ± 0.1 ms Measurement Parameters Contact Timing (O, C-C, C-O & O-C-O); Col Current Measurement, Internal and External Trigger Operations Timing Accuracy 005% rdg ± 0.1 ms Timing Accuracy 005% rdg ± 0.1 ms Initiate capacity Ves Contact Timing (O, C-C, C-O & C-O-Q); Coll Current Measurement, Internal and External Trigger Operations		
Voltage Outplus 220 V DC Universal Input Modules 4 input module; Binary wet/dry Up to 300 VAC/DC voltage measurement Ratio Measurement Modes CT Mode PT Mode (Single-Phase and Three-Phase) Test Voltages CT Mode: 1 V and 4 V; PT Mode (Single-Phase and Three-Phase) Test Voltages CT Mode: 1 V and 4 V; PT Mode (Single-Phase and Three-Phase) Test Voltages CT Mode: 1 V and 4 V; PT Mode (Single-Phase and Three-Phase) Measurement Modes StaticResistance Measurement Auto Test Mode Yes Measurement Range Up to 120 A DC Measurement Range Up to 5 0 Contact Timing (D, C, O-C, C-O & O-C-O); Coil Current Measurement, Internal Trigger Operations Timing Windows 1s, 10s, 20s Timing Accuracy 0.05% rdg ± 0.1 ms Contact Timing (D, C, O-C, C-O & O-C-O); Coil Current Measurement, Internal Trigger Operations Tingger input voltage 24 - 300 V D C or Ac _{ceat} Trigger input voltage 24 - 300 V D C or Ac _{ceat} Trigger Input voltage 24 - 300 V D C or Ac _{ceat} Trigger Input voltage 24 - 300 V D C or Ac _{ceat} Tring Windows 1s, 20, 20 A D C s KHz Commanication	Current Outputs	
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Trigger input voltage24 - 300 V DC or AC peakBreaker Initiate Capacity20 A, 300 V DC or AC peakInitiate current reading range0 - 20A DC, 5 kHzCommonication100-240 V, 47/63 HzNover Supply100-240 V, 47/63 HzInternal MemoryYesCommunicationUSB 2.0/1.1 Standard-B, EthernetPC SoftwareDMP SoftwareDisplay7-inch IPS 1024x600 pixel touch panel displayDimensions(16.9 × 12.9 × 9.3)" (429 × 328 × 236) mmWeight10.70 kgTemperatureWorking : -10°C to +60°C; Storage: -30°C to +70°CHumidity95% RH Non-condensingProtection ClassNe7 (case closed)Included in the PackageArsm Input Cable Set (Red & Black), 1x 5m V OUT Cable Set (Red & Black), 2x 3m Contact Cable Set (Blue & White), 1x 2.5m I OUT Cable Set (Black & Red), Power Cable, Ground Cable, Ethernet Cable, USB	Timing Accuracy	0.05% rdg ± 0.1 ms
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PC SoftwareDMP SoftwareDisplay7-inch IPS 1024x600 pixel touch panel displayDimensions(16.9 × 12.9 × 9.3)" (429 x 328 x 236) mmWeight10.70 kgTemperatureWorking: -10°C to +60°C; Storage: -30°C to +70°CHumidity95% RH Non-condensingProtection ClassIP67 (case closed)Included in the Package4x 5m Input Cable Set (Red & Black), 1x 5m V OUT Cable Set (Red & Black), 2x 3m Coable, Ethernet Cable, USB	Internal Memory	Yes
Display7-inch IPS 1024x600 pixel touch panel displayDimensions(16.9 × 12.9 × 9.3)" (429 x 328 x 236) mmWeight10.70 kgTemperatureWorking : -10°C to +60°C; Storage: -30°C to +70°CHumidity95% RH Non-condensingProtection ClassIP67 (case closed)Included in the Package4x 5m Input Cable Set (Red & Black), 1x 5m VOUT Cable Set (Red & Dave Cable, Ground Cable, Ethernet Cable, USB)	Communication	USB 2.0/1.1 Standard-B, Ethernet
Dimensions(16.9 × 12.9 × 9.3)" (429 x 328 x 236) mmWeight10.70 kgTemperatureWorking : -10 °C to +60 °C; Storage: -30 °C to +70 °CHumidity95% RH Non-condensingProtection ClassIP67 (case closed)Av 5m Input Cable Set (Red & Black), 1x 5m V OUT Cable Set (Red & Black), 2x 3m Contact Cable Set (Blue & White), 1x 2.5m I OUT Cable Set (Black & Red), Power Cable, Ground Cable, Ethernet Cable, USB	PC Software	DMP Software
Weight10.70 kgTemperatureWorking: -10 °C to +60 °C; Storage: -30 °C to +70 °CHumidity95% RH Non-condensingProtection ClassIP67 (case closed)Ax 5m Input Cable Set (Red & Black), 1x 5m V OUT Cable Set (Red & Black), 2x 3m Contact Cable Set (Blue & White), 1x 2.5m I OUT Cable Set (Black & Red), Power Cable, Ground Cable, Ethernet Cable, USB	Display	7-inch IPS 1024x600 pixel touch panel display
TemperatureWorking: -10 °C to +60 °C; Storage: -30 °C to +70 °CHumidity95% RH Non-condensingProtection ClassIP67 (case closed)Ax 5m Input Cable Set (Red & Black), 1x 5m V OUT Cable Set (Red & Black), 2x 3m Contact Cable Set (Blue & White), 1x 2.5m I OUT Cable Set (Black & Red), Power Cable, Ground Cable, Ethernet Cable, USB	Dimensions	(16.9 × 12.9 × 9.3)" (429 × 328 × 236) mm
Humidity 95% RH Non-condensing Protection Class IP67 (case closed) Ax 5m Input Cable Set (Red & Black), 1x 5m V OUT Cable Set (Red & Black), 2x 3m Contact Cable Set (Blue & White), 1x 2.5m I OUT Cable Set (Black & Red), Power Cable, Ground Cable, Ethernet Cable, USB	Weight	10.70 kg
Protection Class IP67 (case closed) Ax 5m Input Cable Set (Red & Black), 1x 5m V OUT Cable Set (Red & Black), 2x 3m Contact Cable Set (Blue & White), 1x 2.5m I OUT Cable Set (Black & Red), Power Cable, Ground Cable, Ethernet Cable, USB	Temperature	Working : -10 °C to +60 °C; Storage: -30 °C to +70 °C
Ax 5m Input Cable Set (Red & Black), 1x 5m V OUT Cable Set (Red & Black), 2x 3m Contact Cable Set (Blue & White), 1x 2.5m I OUT Cable Set (Black & Red), Power Cable, Ground Cable, Ethernet Cable, USB	Humidity	95% RH Non-condensing
Included in the Package (Blue & White), 1x 2.5m I OUT Cable Set (Black & Red), Power Cable, Ground Cable, Ethernet Cable, USB	Protection Class	IP67 (case closed)
	Included in the Package	4x 5m Input Cable Set (Red & Black), 1x 5m V OUT Cable Set (Red & Black), 2x 3m Contact Cable Set (Blue & White), 1x 2.5m I OUT Cable Set (Black & Red), Power Cable, Ground Cable, Ethernet Cable, USB flash drive, Instruction Manual (Soft Copy), DMP Software, Cable Bag

Specifications are valid at/under 25 °C temperature. *Content subject to change without notice.

ORDERING INFORMATION

ACCESSORIES



5m Measurement Cable Set, IN 1 Part: IN-MEAS-SET Ordering Code: 71910



5m Measurement Cable Set, IN 2 Part: IN-MEAS-SET Ordering Code: 71910



5m Measurement Cable Set, IN 3 Part: IN-MEAS-SET Ordering Code: 71910



5m Measurement Cable Set, IN 4 Part: IN-MEAS-SET Ordering Code: 71910



5m Contact Out Cable Set, C OUT 1 Part: CON-OUT Ordering Code: 71911



5m Contact Out Cable Set, C OUT 2 Part: CON-OUT Ordering Code: 71911



5 m V Out Cable Set, V OUT Part: V OUT Ordering Code: 71912



2.5m I Out Cable Set, I OUT Part: I OUT Ordering Code: 71913



2.5m Grounding Cable & Crocodile Clip Part: GC-01 Ordering Code: 90120



1.8m Power Cord (EU/US/UK) Part: PWC-01(EU)/02 (US)/03 (UK) Ordering Code: 90110/90113/90115



32 GB USB Flash Part: USB-02 Ordering Code: 90131



1 pcs Cable Carry Bags Part: SCB-03 Ordering Code: 90162



1.5m Ethernet Cable Part: ETH-01 Ordering Code: 901312



SOFT

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Part: HARD CASE Ordering Code: 90999

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