

MARKETS

- Electrical Power Generation
- Heavy Industry
- HVACR Mining
- **Motor Repair**
- **Natural Gas** Transmission*
- Oil Production
- **Oil Pipelines**
- Railroads
- Refinina
- Steel Manufacturing

Gathering facilities, compressor stations, and pipelines

APPLICATIONS

- **Cables**
- **Compressors**
- Controls
- Distribution Transformers*
- Generators
- Instruments
- Motors
- Motor Windings
- **Switchgear**
 - **Medium** and high-voltage power trans formers would normally not be tested with these instruments

Turn over for technical information and accessory part numbers.

Insulation Resistance Testers

Check compressor, transformer, and motor windings for insulation breakdown. TPI Insulation Resistance Testers are ideal for preventative maintenance and performing resistance tests. All TPI Insulation Resistance Testers include A085 UL listed silicone test lead set with screw on alligator clips and A073 test lead set with large alligator clips. All **TPI Insulation Resistance Testers are:**

- Push button or locking operation
- Automatic discharge
- Built-in battery test

ANALOG TESTERS

SAIT 25



Test Voltages 250V/500V/1,000V

Insulation Resistance $100M\Omega$ /200M Ω /400M Ω

AC Voltage Nο

Continuity $2\Omega/20\Omega$

SAIT 200



Test Voltages 250V/500V/1,000V

Insulation Resistance $100M\Omega$ /200M Ω /400M Ω

AC Voltage

No

Continuity $2\Omega/20\Omega$

DIGITAL TESTERS



2.45lbs

Test Voltages 250V/500V/1,000V

Insulation Resistance $2,000M\Omega / 2,000M\Omega / 2,000M\Omega$

AC Voltage Nο

Continuity 200Ω

SDIT 300



Test Voltages 250V/500V/1,000V

Insulation Resistance $20M\Omega / 200M\Omega / 2.000M\Omega$

AC Voltage 200V/600V

Continuity $20\Omega/200\Omega$

FEATURES

	SAIT 25	SAIT 200	SDIT 30	SDIT 300
Display	Analog scale	Analog scale	Digital	Digital
Backlight	No	Yes	No	No
Battery Check	Battery check mode	Battery check mode	Low battery indication	Low battery indication
Warning Signal	Lamp & beep	Lamp & beep	Lamp & beep	Live display on the LCD & beep
Ohm Zero Adjust	Yes	Yes	Yes	Yes
Power Supply	Battery (1.5V x 6)	Battery (1.5V x 6)	Battery (1.5V x 8)	Battery (1.5V x 8)
Fuse Protected	Yes	Yes	No	Yes
	(continuity range only)	(continuity range only)	140	(continuity, insulation)
Category	CAT III 600V	CAT III 300V	CAT II 1,000V	CAT III 600V



Insulation Resistance Testers

SAIT 200

SDIT 30

SDIT 300

SPECIFICATIONS ACCESSORIES

Insulation 250V/500V/1,000V 200V/500V/1,000V 250V/500V/1,000V 250V/500V/1,000V Test Voltage Open Circuit Voltage 250V ±10% 250V ±10% 250V, 480V, 950V 250V ±10% 500V ±10% 500V ±10% 500V ±10% (approximately) 1,000V ±10% 1,000V ±10% 1,000V ±10% Measuring Ranges 100M Ω /200M Ω /400M Ω 100M Ω /200M Ω /400M Ω 2,000Μ Ω /2,000Μ Ω /2,000Μ Ω $20 \mathrm{M}\Omega$ /200 M Ω /2,000 M Ω Accuracy $0.05M\Omega \sim 10M\Omega : \pm 5\%$ $0.05M\Omega \sim 10M\Omega : \pm 5\%$ $0 \sim 100 M\Omega (250 V)$: ±1.5% of $20M\Omega$: ±3% of reading reading ±3 digits ±5 diaits $0.1M\Omega \sim 20M\Omega : \pm 5\%$ 200M Ω : ±3% of reading $0.1M\Omega \sim 20M\Omega$: ±5% $\sim 200 M\Omega (250 V) : \pm 2\% \text{ of}$ reading ±10 digits reading ±5digits $0.2M\Omega \sim 40M\Omega$: ±5% $0.2M\Omega \sim 40M\Omega$: ±5% 1,700M Ω (250V) : ±3% of $1.000M\Omega$: ±3% of reading reading ±7 digits reading ±20 digits ±7% of scale length at ranges ±7% of scale length at ranges ~ 2,000M\Omega (250V): ±3% of $2,000M\Omega$: ±5% of reading reading ±8 digits reading ±40 digits other than the above range other than the above range $0\sim 200 M\Omega$ (500V): ±1.5% of reading ±2 digits $200 \sim 1{,}700 M\Omega$ (500V) : ±3% of reading ±4 digits $1,700 \sim 2,000 M\Omega (500 V)$: ±4% of reading ±6 digits $0 \sim 200 M\Omega$ (1,000V) : $\pm 1.5\%$ of reading ±2 digits $200 \sim$ 1,700M Ω (1,000V) : ±3% of reading ±3 digits $1,700 \sim 2,000 \text{M}\Omega \ (1,000 \text{V}) : \pm 4\% \ \text{of}$ reading ±5 digits Continuity $2\Omega/20\Omega$ 200Ω Measuring Ranges $2\Omega/20\Omega$ $20\Omega/200\Omega$ DC 4V Open Circuit Voltage DC 4V ~ 9V DC 4V ~ 9V DC 170mV (appoximately) Short Circuit Current 200mA min 200mA min 24mA (appoximately) 200mA DC min in 20Ω Range ±3% of scale length ±3% of scale length ±1.5% of reading ±2 digits Accuracy $\pm 3\%$ of reading: ± 3 digits $\pm 1\Omega$ ACV Measuring Ranges 200V/600V 45Hz ~ 450Hz Input Frequency Accuracy % of reading ±5 digits

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Part Number	Test Leads	Neck Strap
SAIT 25	A085 & A073	A122
SAIT200	A085 & A073	A122
SDIT30	A085 & A073	A122
SDIT300	A085 & A073	A122

SAIT 25

A085 consists of the A080 UL listed silicone test lead set with A150 screw on alligator clips.

A073 consists of a six foot lead set with large alligator clips.

Description	Part#
4' red and black leads with large alligator clips	



To learn about the entire line of TPI products visit:

www.tpi-thevalueleader.com

- 1. Selecting an insulation tester is like selecting a DMM. You need to know what value (resistance) you are going to measure and the required applied voltage.
- 2. Do you want analog or digital? Digital is easier to read, but analog typically works over a larger operating temperature range.

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