

TSX 300 TRAX Switch Box



- **Shorter test time by reducing time to connect transformer terminals**
- **Increases safety by reducing time for work on ladders**
- **Minimizes the risk of measurement errors due to wrong connections**

DESCRIPTION

The optional TSX300 switchbox accessory provides functionality to test all windings and taps of a transformer with only one single connection. All windings are connected at one time, minimizing the time needed for reconnections and improving safety by reducing the number of trips up and down the ladder.

TSX300 comes in two panel designs, one suited to IEC and one to ANSI.

TSX300 can handle up to 250VAC or 16ADC. It comes with cables for connecting to TRAX. Bushing cables, which are available in different lengths, should be added to order, see Optional accessories.

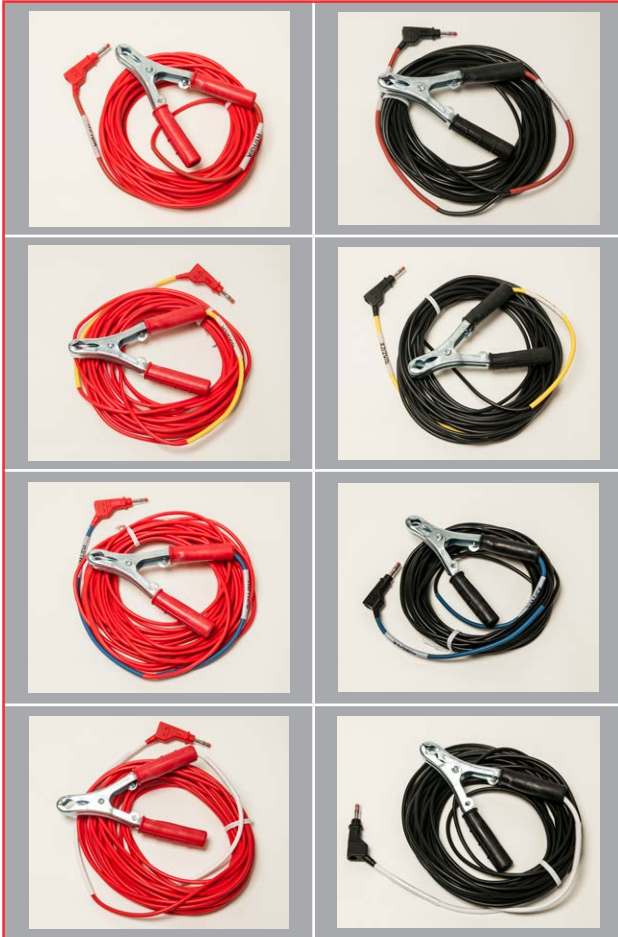
APPLICATIONS

The TSX300 is an accessory product for the TRAX Transformer and Substation Test System for providing 3-winding/8-terminal one-time-connection for 3-phase transformers. The TSX300 switchbox is manually controlled using the rotary switches. It can also be used together with other single-generator products for one-time connection on 3-phase power transformers.

OPTIONAL ACCESSORIES

TSX bushing cable set

The cable set is available in two lengths: GC-32712, 10 m (33 ft) and GC-32722, 20 m (66 ft).



The cables are delivered two pieces each with of which is shown above, along with a soft case.

HV – Red/Black cables with clamps

Description	Label
Red/Black clamp, red sleeve/markings at both ends	H1/1U/A
Red/Black clamp, yellow sleeve/markings at both ends	H2/1V/B
Red/Black clamp, blue sleeve/markings at both ends	H3/1W/C
Red/Black clamp, white sleeve/markings at both ends	H0/1N/N

LV – Red/Black cables with clamps

Description	Label
Red/Black clamp, red sleeve/markings at both ends	X1/2U/a
Red/Black clamp, yellow sleeve/markings at both ends	X2/2V/b
Red/Black clamp, blue sleeve/markings at both ends	X3/2W/c
Red/Black clamp, white sleeve/markings at both ends	X0/2N/n

TSX bushing cable set, Kelvin

We recommend this cable set with Kelvin clamps and it is available in two lengths: GC-32730, 10 m (33 ft) and GC-32732, 20 m (66 ft).



The cables are delivered one each as shown above, along with a hard case.

HV – with Red Kelvin clamps

Description	Label
Red Kelvin clamp, red sleeve/markings at both ends	H1/1U/A
Red Kelvin clamp, yellow sleeve/markings at both ends	H2/1V/B
Red Kelvin clamp, blue sleeve/markings at both ends	H3/1W/C
Red Kelvin clamp, white sleeve/markings at both ends	H0/1N/N

LV – with Black Kelvin clamps

Description	Label
Black Kelvin clamp, red sleeve/markings at both ends	X1/2U/a
Black Kelvin clamp, yellow sleeve/markings at both ends	X2/2V/b
Black Kelvin clamp, blue sleeve/markings at both ends	X3/2W/c
Black Kelvin clamp, white sleeve/markings at both ends	X0/2N/n

SPECIFICATIONS TSX 300

Specifications are subject to change without notice.


Environment

<i>Application field</i>	For use in high-voltage substations and industrial environments
<i>Temperature</i>	
<i>Operating</i>	-20°C to +55°C (-4°F to +131°F)
<i>Storage</i>	-40°C to +70°C (-40°F to +158°F)
<i>Humidity</i>	0-90% non-condensing
<i>Altitude</i>	2000 m (max)

CE- marking

<i>LVD</i>	2006/95/EC
<i>Vibration</i>	IEC 60 068-2-6
<i>Shock</i>	IEC 60 068-2-27
<i>Transport</i>	ISTA 2A

General

 Protective ground (earth) conductor terminal

Dimensions 310 x 145 x 210 mm (excl. handle)
(12.2" x 5.7" x 8.3")

Weight 3.8kg (8.3 lbs)

TRAX Interface

Inputs

250 V AC Max 250 V (Max 16 A)

16 A DC Max 16 A (Max 60 V)

Outputs

R1 Max 60 V DC

R2 Max 60 V DC

CH1 Max 250 V AC

CH2 Max 250 V AC

All voltage (MEAS) measurements are interfaced to TRAX (R1, R2, Ch1 and/or Ch2)

All currents, DC or AC are measured internally by TRAX generator

Specimen interface

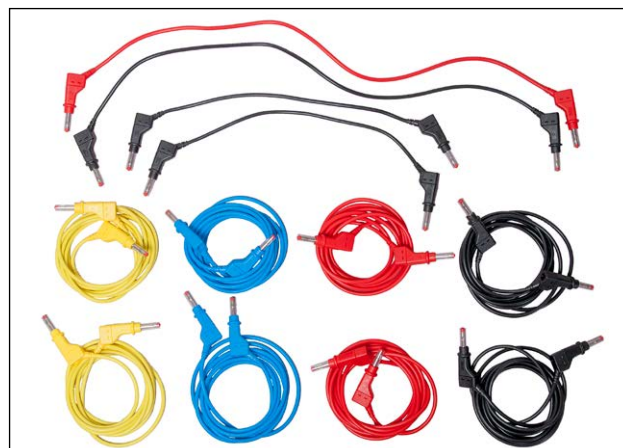
GEN 8 bushing terminals output (4 **LOW** and 4 **HIGH**)
(*Generator*) TRAX 250V AC or TRAX 16A DC generator

MEAS 8 bushing terminals (4 **LOW** and 4 **HIGH**) for
(*Measurement*) measurement of AC or DC voltage levels

INCLUDED ACCESSORIES

The included test cable set (GA-00032) is intended for connecting the TSX300 to TRAX.

Note: For connecting TSX300 to the transformer you need any of the optional TSX bushing cable sets.



Test cable set, GA-00032



Ground cable, GC-30070

ORDERING INFORMATION

Item	Art. No.
TSX 300 IEC panel design	AJ-69390
TSX 300 ANSI panel design	AJ-69395
Included accessories	
Test cable set, GA-00032	
Ground cable, 1 m (3.3 ft), GC-30070	
Transport case	
Optional accessories	
TSX bushing cable set, incl. soft case, GD-00360	
10 m (33 ft)	GC-32712
20 m (66 ft)	GC-32722
TSX bushing cable set, Kelvin, incl. hard case, GD-30240	
10 m (33 ft)	GC-32730
20 m (66 ft)	GC-32732

Postal address

Megger Sweden AB
Box 724
SE-182 17 Danderyd
SWEDEN

T. 08 510 195 00
E. seinfo@megger.com

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