

TCX 200

TRAX Current Box 2000 A

Megger[®]



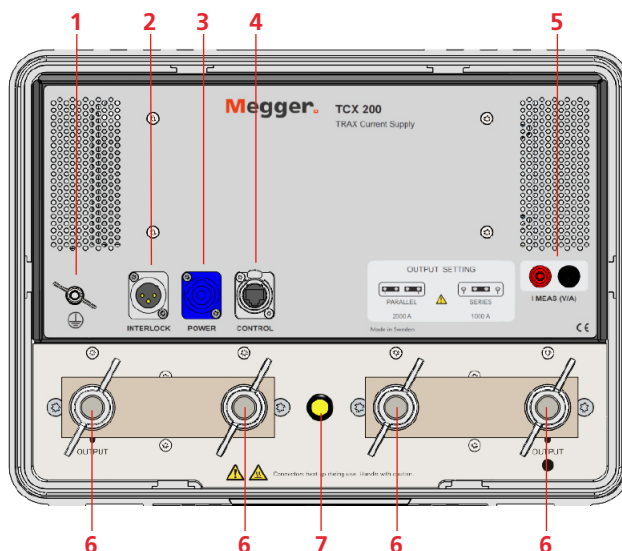
- Designed to be placed close to the test object, thus reducing the need for long and heavy current cables
- 2000 A up to two minutes
- Compact format
- Parallel or serial configuration
- Low weight, 21 kg

DESCRIPTION

TRAX Transformer and Substation Test System is designed for primary injection testing of protective relay equipment and circuit breakers. It is also used to test the turns ratio of current transformers and for other applications that require high variable currents.

When the high-current output of TRAX 219/220 (max 200 A) or TRAX 279/280 (max 800 A) is not sufficient, the optional accessory TCX offers currents up to 2000 A.

Thanks to its dimensions and design, the TCX unit can be placed close to the test object, thus reducing the need for long heavy current cables. Shorter cables save time, weight and money. It also allows higher test currents.



1. **Ground**
(earth) terminal
2. **INTERLOCK**
Used for high temperature protection
3. **POWER**
Power input from TRAX
4. **CONTROL**
Power over Ethernet for internal electronics, fan etc.
5. **I MEAS**
Measurement output. Must be connected to TRAX Analog Ch4 voltage.
6. **Current outputs**
Terminals for parallel or serial configuration
7. **Configuration**
Sensor

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SPECIFICATIONS

Specifications are valid at nominal input voltage and an ambient temperature of $+23^{\circ}\text{C} \pm 5^{\circ}$, (77°F). Test frequency 45-70 Hz. Specifications are subject to change without notice.

Environment

Application field	For use in high-voltage substations and industrial environments
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Temperature

Operating	-20°C to $+55^{\circ}\text{C}$ (-4°F to $+131^{\circ}\text{F}$)
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Storage	-40°C to $+70^{\circ}\text{C}$ (-40°F to $+158^{\circ}\text{F}$)
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Humidity

Operating	0-90% non-condensing
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Storage	0-95% non-condensing
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CE- marking

EMC	EN 61 326-1:1997 + A1:1998
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LVD	EN 61 010-1:2010
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Encapsulation class	IP 21
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Vibration	IEC 60 068-2-6
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Shock	IEC 60 068-2-27
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Transport	ISTA 2A
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General

Dimensions	410 x 340 x 205 mm (16.1" x 13.4" x 8")
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Weight	21 kg (46 lbs)
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Inputs / Outputs

	GROUND For connecting an additional ground between the main unit and accessories or to ground external objects e.g. optional trolley
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INTERLOCK	High temperature protection (connected to TRAX interlock 2)
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POWER	From TRAX (AUX Power)	0-240 V AC, 5-500 Hz ¹⁾
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CONTROL	Power supply and communication
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I MEAS V/A	0-1 V for 0-1000 A (series) 0-1 V for 0-2000 A (parallel)
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OUTPUT	0-1000 A (series)	5.0 V AC, 50-60 Hz
	0-2000 A (parallel)	2.5 V AC, 50-60 Hz

Outputs in series

Current	Max power	Max time	Duty cycle
1000 A	5000 VA	2 min	5 s / 30 s
900 A	4750 VA	6 min	5 s / 20 s
800 A	4400 VA	8 min	5 s / 15 s
700 A	3920 VA	15 min	5 s / 5 s
600 A	3400 VA	30 min	5 s / 5 s
500 A	3000 VA	> 2 hrs	continuous
300 A	1900 VA	> 2 hrs	continuous

Outputs in parallel

Current	Max power	Max time	Duty cycle
2000 A	5000 VA	2 min	5 s / 30 s
1800 A	4750 VA	6 min	5 s / 20 s
1600 A	4400 VA	8 min	5 s / 15 s
1400 A	3920 VA	15 min	5 s / 5 s
1200 A	3400 VA	30 min	5 s / 5 s
1000 A	3000 VA	> 2 hrs	continuous
600 A	1900 VA	> 2 hrs	continuous

Measurement output

0-1000A (series)	1000 A = 1.00 V
0-2000A (parallel)	2000 A = 1.00 V
Accuracy	0.2% +/- 0.2% of full scale, phase 0.2°

1) Signals below 50 Hz or above 60 Hz possible but with derating

INCLUDED CABLES



ORDERING INFORMATION			
Item		Cat. No.	
TCX200			
Included accessories:			
Ethernet cable, 10 m (33 ft)	GA-00730		AJ-69290
Extension cable, 10 m (33 ft)	GA-01005		
AUX power cable, 10 m (33 ft) (L+N+Ground)	GC-31210		
Ground interconnect cable, 10 m (33 ft)	GC-30090		
Test cable, 10 m, (33 ft)	GA-32110		
Recommended optional cables: 2 sets of GA-12051, 2 x 2 m (6.6 ft)			
Optional accessories			
Cables			
Cross section area: 120 mm²			
Length	Impedance	Weight	
2 x 2 m (6.6 ft)	1.2 mΩ	6.4 kg (14.1 lbs)	GA-12051
2 x 5 m (16 ft)	2.2 mΩ	15.2 kg (33.5 lbs)	GA-12052
Multi-cable high current cable sets (Twisted-pair cables)			
Cross section area: 240 mm² (2x120)			
Length	Impedance		
2 x 0.5 m (1.6 ft)	0.21 mΩ		GA-12205
2 x 1 m (3.3 ft)	0.32 mΩ		GA-12210
2 x 1.5 m (4.9 ft)	0.42 mΩ		GA-12215
2 x 2 m (6.6 ft)	0.53 mΩ		GA-12220
Cross section area: 360 mm² (3x120)			
2 x 0.5 m (1.6 ft)	0.18 mΩ		GA-12305
2 x 1 m (3.3 ft)	0.25 mΩ		GA-12310
2 x 1.5 m (4.9 ft)	0.32 mΩ		GA-12315
2 x 2 m (6.6 ft)	0.39 mΩ		GA-12320
Other lengths are available on request.			

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ISO 9001:2008
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