# **TCX 200**

## **TRAX Current Box 2000 A**



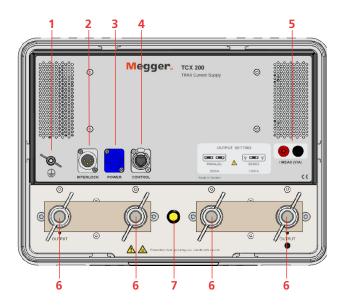
- Designed to be placed close to the test object, thus reducing the need for long and heavy current cables
- 2000 A up to two minutes
- Compact format
- Paralell or serial configuration
- Low weight, 21 kg

#### **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



#### **SPECIFICATIONS**

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

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Evironment				
Application field	For use in high-voltage substations and industrial environments			
Temperature				
Operating	-20°C to +55°C (-4°F	to +131°F)		
Storage	-40°C to +70°C (-40	°F to +158°F)		
Humidity				
Operating	0-90% non-condens	sing		
Storage	0-95% non-condens	sing		
CE- marking				
EMC	EN 61 326-1:1997 + A	A1:1998		
LVD	EN 61 010-1:2010			
Encapsulation class	IP 21			
Vibration	IEC 60 068-2-6			
Shock	IEC 60 068-2-27			
Transport	ISTA 2A			
General				
Dimensions	410 x 340 x 205 mm	(16.1" x 13.4" x 8")		
Weight	21 kg (46 lbs)			
Inputs / Outputs				
<u></u>	GROUND For connecting an additional ground between the main unit and accessories or to ground external objects e.g. optional trolley			
INTERLOCK	High temperature protection (connected to TRAX interlock 2)			
POWER	From TRAX 0-240 V AC, 5-50 (AUX Power)			
CONTROL	Power supply and co			
I MEAS V/A	0-1 V for 0-1000 A (series) 0-1 V for 0-2000 A (parallel)			

### Outputs in series

OUTPUT

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 / 5s
500 A	3000 VA	> 2 hrs	continuous
300 A	1900 VA	> 2 hrs	continuous

0-1000 A (series) 5.0 V AC, 50-60 Hz 0-2000 A (parallel) 2.5 V AC, 50-60 Hz

#### **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**



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## Item

**TCX200** 

Art. No.

Included accessories:

Ethernet cable, 10 m (33 ft)	GA-00730
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), black	04-35060
Test cable, 10 m, (33 ft), red	04-35062

AJ-69290

Recommended optional cables:

2 sets of GA-12051, 2 x 2 m (6.6 ft)

### **Optional accessories**

#### Cables

Cross section area: 120 mm<sup>2</sup>

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 mm<sup>2</sup> (2x120)

2.055 500 cm a can 2 10 mm (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 mm <sup>2</sup> (3x120)				
	2 x 0.5 m (1.6 ft)	0.18 mΩ	GA-12305		

	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				
ı	Other lengths are available on request				

Other lengths are available on request.



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