Megger. Timer

TM200

Timer



- Rugged and compact
- Precise
- Broad application range
- Contact or voltage trig

DESCRIPTION

A timer is often needed for use with the CSU600A current supply unit or ODEN A primary current injection test system. Testing relays with SVERKER 650 also requires an extra timer if more than one timing cycle is to be measured.

Timer TM200 is ideal for these tasks thanks to its precise accuracy, its broad application range and its compact dimensions. TM200 is the obvious choice for maintenance work in substations.

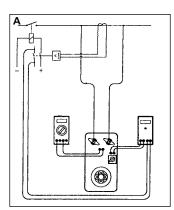
APPLICATION EXAMPLE

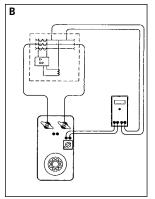
IMPORTANT!

Read the User's manual before using the instrument.

Primary test of protective relay equipment and low-voltage circuit breaker

- 1. Connect the instruments to protective ground (earth).
- 2. Connect the CSU600A's current outputs across the current transformer (diagram A) or to the breaker terminals (diagram B).
- **3.** Connect TM200's start input to output T and the stop input to the protective relay equipment's auxiliary contact.
- 4. Set the current.
- 5. Execute the test.
- 6. Read the time from TM200.





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SPECIFICATIONS

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F). Specifications are subject to change without notice.

Environment

Application field The instrument is intended for use

in medium-voltage substations and

industrial environments.

Altitude <2000 m (6500 ft) above

sea level.

Temperature

Operating 0°C to +50°C (32°F to +122°F) Storage & transport -20°C to +70°C (-4°F to +158°F) Humidity 5% – 95% RH, non-condensing

CE-marking

LVD 2006/95/EC **EMC** 2004/108/EC

General

Input: 100/240 V AC, 50/60 Hz Power supply 5 V DC via separate adapter Output: 5.0 V DC, 2.40 A

Dimensions

(7.7" x 4.5" x 1.9") Instrument, incl. handle 252 x 132 x 49 mm

(9.9" x 5.2" x 1.9") 1.0 kg (2.2 lbs)

Weight 2.8 kg (6.2 lbs) with accessories and

carrying case

4 x 2 m (6.6 ft), 2.5 mm²

194 x 115 x 49 mm

Test lead set, with touch-

Instrument, excl. handle

proof contacts

Measurement section

Range 0-999.999 s

Resolution 1 ms

±0.02% + 1 digit of displayed value Inaccuracy

Timer inputs

Max input voltage 250 V AC/DC

Voltage mode

Parameter	Min	Max	Unit
Threshold level, Positive at red terminal	8	20	V DC
Threshold level, Negative at red terminal	-20	-8	V DC
Input current at threshold level Positive at red terminal	0.7	2.0	mA DC
Input current at threshold level Positive at black terminal	4	12	mA DC
Threshold level, low to high, 50 Hz	5	15	V ACRMS
Threshold level, high to low, 50 Hz	15	45	V ACRMS

Contact mode

Parameter	Min	Max	Unit
Closed contact detection	0	1	kΩ
Open contact detection	4	-	kΩ
Open circuit voltage	17	20	V DC
Short circuit current	8	13	mA DC

Input current at maximum input voltage, inrush

Parameter	Max	Unit
At 250 V DC, Positive at red terminal	8	mA DC
At 250 V DC, Positive at black terminal	150	mA DC
At 250 V AC	80	mA DC

Input current at maximum input voltage, continuous

Parameter	Max	Unit
At 250 V DC, Positive at red terminal	8	mA DC
At 250 V DC, Positive at black terminal	12	mA DC
At 250 V AC	15	mA DC

Item		Art. No.
TM200		BE-29090
Including:		
AC/DC adapter, 5 V	HC-04125	
Test lead set, 4x2 m (6.5 ft)	GA-00082	2
Protective cable, 5 m (16 ft)	GA-00200)
Carrying case	GD-00230)



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