

TW 8

Telecom Wave Impulse Modul 10 / 700 μ s

IEC / EN 61000-4-5 Telecom Wave
ITU K.20, K.21, K. 44, K. 45

- 2 pairs of communication lines or 4 lines individually controlled by AXOS 8
- Front time OCV: 10 μ s \pm 30%
- Decay time OCV: 700 μ s \pm 20%



**Only with AXOS 8
from HAEFELY!**



Overview

The TW 8 Telecom Wave Impulse Module is the extension of your AXOS8 Immunity Test System if Telecom Surge Immunity Tests according to IEC/EN 61000-4-5 Ed. 3.0 figures A.2 and A.3 need to be performed.

When external TW 8 module is connected it gets automatically indicated via the link cable (intelligent input). In the front view are three different coupling impedances (1 x 15 Ohm (HI-COM), 4 x 40 Ohm, 4 x 40 Ohm gas arresters) options. The user selects on the coupling unit (TW 8 module) which impedance is required for the particular application.

Outdoor telecommunications networks typically have cable lengths of 300 m and more. Sometimes communication lines may even have a total cable length of several kilometers. The corresponding test impulse given by the applicable standard shows the typical waveform 10 / 700 μ s – 5 / 320 μ s as this waveshape is the most representative of actual surges encountered in the field.

Coupling via arrestors is the preferred coupling method for unshielded outdoor symmetrical communication lines. The coupling network also has the task of splitting the surge current into multiple pairs in multi-conductor cables.

Key facts

- Predefined according norm and individual setups available
- Plug-and-play with AXOS 8
- All interconnected cables included



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Technical data

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Output voltage	0.2 – 7.0 kV \pm 10%	Front time SSC	5 μ s \pm 20%
Output current	5 - 175 A \pm 10%	Decay time SCC	320 μ s \pm 20%
Front time OCV	10 μ s \pm 30%	Outputs	4 mm banana sockets
Decay time OCV	700 μ s \pm 20%	Trigger	automat. 3 s - 100 min manual
Polarity	positive / negative / alternate	Dimensions (W x D x H)	450 x 490 x 180 mm (17.7 x 19.3 x 7.1 in)
Mains power supply	with AXOS 8	Rack size	19 in / 4HU – 7 in (177.8 mm)
Source impedance / coupling	15 Ω x 1 40 Ω x 4 40 Ω gas arresters x 4	Weight	16 kg net. (35.3 lb)

Options

2490800 AXOS 8 Compact

Scope of delivery

TW 8 module

Bridge connector (short circuit)

D-Sub 37p cable, 1 m

Earth cable, 1 m

Calibration certificate

All information regarding appearance and technical data correspond to the current state of development at the time of release of this data sheet. We reserve the right to make technical changes. 162303

