



Test system for surge protection devices



Lightning protection systems must be tested as per the IEC 62305-3 requirements and the government specifications. Already damaged surge protection devices cannot however be identified by a visual check. Only an electrical check using the CHECKMASTER delivers convincing results.

The benefits at a glance:

- Convenient, safe and speedy test
- The innovative check status "Tolerance barrier reached" prevents unnecessary servicing
- Automatic log function of test results
- The internal memory also enables subsequent processing of the test results on the PC
- The update function always keeps the CHECKMASTER up-to-date with the latest advancements in the testing technology
- High investment security thanks to variable test sockets
- Increase in system availability thanks to the screening test
- IEC 62305-3-compliant testing
- High quality and safety standard

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CHECKMASTER



Current and data connection

Scanner

Four-line LC display

Rugged membrane keypad

Variable test sockets

Spot the problem beforehand - Carry out the screening test

CHECKMASTER, the intelligent arrester testing device and the pluggable surge protection devices from the TRABTECH product range enable the implementation of a unique screening test. In addition to the standard statuses such as "Test object OK" and "Test object faulty", the CHECKMASTER also determines the "Tolerance barrier reached" status with a single round of tests per arrester. The current electric parameters of the components are also determined and compared with the reference values. Arresters subjected to heavy wear are identified as already damaged and recommended for replacement. Unexpected failure and unnecessary servicing can thus be prevented effectively. With the measurement of tolerance values, the CHECKMASTER defines a completely new dimension and quality when testing lightning protection systems. You can spot the problem beforehand and deal with it before it leads to a failure.

A clear log of the tested arresters can be created easily and comfortably with the "Checkmaster to Excel Interface" function. The required tool as well as further documentation about the CHECKMASTER can be found on the Internet in the download center under the keyword "CHECKMASTER".



Convenient scanning

The barcodes on the surge protection devices provide you with a fast and accurate option to enter an item.



Fast logging

IEC 62305-3 requires the test to be documented. Thanks to its internal memory, the CHECKMASTER allows you to process the test values either immediately or at a later date.



Data exchange with computers

Data is transferred to the PC through the V.24/RS-232 interface. The CHECKMASTER can be connected to USB interfaces using the adapter set.



Internet updates





The firmware of the CHECKMASTER can be updated on the Internet using the free update tool and the corresponding cable. The most recent version of the firmware can be found in the download center of Phoenix Contact.

Test system for protective devices

Selection guide

The CHECKMASTER checks all relevant components of an arrester using electric testing procedures. All installed protective elements such as spark gaps, gas-filled surge arresters, varistors and suppressor diodes are thus thoroughly tested in a single test cycle.

This selection table shows some of the test adapters. Please select the test adapter to match your surge protection device. Other test sockets are listed on page 189.

	Product
FLASHTRAB compact, VALVETRAB compact	
PLUGTRAB PT	
VALVETRAB-MS	
COMTRAB modular	

Test adapter				Page
	2880392	CM-PA-FLT/VAL-CP		189
	2882844	CM-PA-PT Included in the scope of supply of the CHECKMASTER		189
	2858454	CM-PA-VAL		189
	2816962	CM-PA-CTM		189

Test system for surge protection devices

Testers and accessories

Testers and accessories

The CHECKMASTER is the modular tester for almost all pluggable surge arresters from Phoenix Contact. One suitable test socket is provided for each of the various arrester plugs. A number of surge protection plugs can thus be tested by simply changing the test socket in the tester.

Barcode reader, keyboard and plain text display aid operation. It is also possible to enter system-specific names for the protective devices that allow each individual test to be traced at any time. The integrated interface makes it possible to document the test results on the PC.

The test socket for PLUGTRAB PT is included in the scope of supply of the CHECKMASTER.

PA-CASE is the rugged tailor-made transport case for the test sockets of the CHECKMASTER. It has six padded compartments and provides sufficient space for all connecting cables. The test adapters are not included in the scope of supply of the PA-CASE.

The test device can be connected to a USB interface of a computer using the CM-KBL-RS232/USB adapter cable.

CM-KBL-PROG is required to update the CHECKMASTER. The firmware of the test device can be updated using this cable and the software that can be downloaded from the Internet free of charge. This software is available in the download center of our website.

Note: The programming cable has a special pin assignment. It can be used only to update the software!

Dimensional drawings starting on page 196.



CHECKMASTER

Surge arrester tester

Description	Type	Order No.	Pcs. / Pkt.
Test device , for the function test of TRABTECH protective devices, incl. CM-PA-PT for PLUGTRAB PT			
Transport case , to accommodate 6 TRABTECH test adapters CM-PA...	CHECKMASTER	2838924	1
TRABTECH test adapter , for testing the function of: FLASHTRAB compact and VALVETRAB compact COMTRAB CTM COMTRAB CT 10 PLUGTRAB PT PLUGTRAB UFBK, UAK TF-TRAB VALVETRAB			
Connection cable , D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB			
Connection cable , as an update cable for the CHECKMASTER			
Technical data			
Nominal voltage U_N	230 V AC (100 V AC ... 240 V AC)		
Data bits	8		
Data rate	9600 bps (default)		
Stop bits	1 or 2		
Interface	RS-232		
Degree of protection	IP20		



PA-CASE

Transport case for testers



CM-PA...

Test adapter for surge protection devices



CM-KBL...

Connecting cable D-9-SUB to USB

Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PA-CASE	2858988	1						
			CM-PA-FLT/VAL-CP	2880392	1			
			CM-PA-CTM	2816962	1			
			CM-PA-CT10	2816959	1			
			CM-PA-PT	2882844	1			
			CM-PA-PT/A	2816933	1			
			CM-PA-TF	2816975	1			
			CM-PA-VAL	2858454	1			
			CM-KBL-RS232/USB	2881078	1			
						CM-KBL-PROG	2881557	1