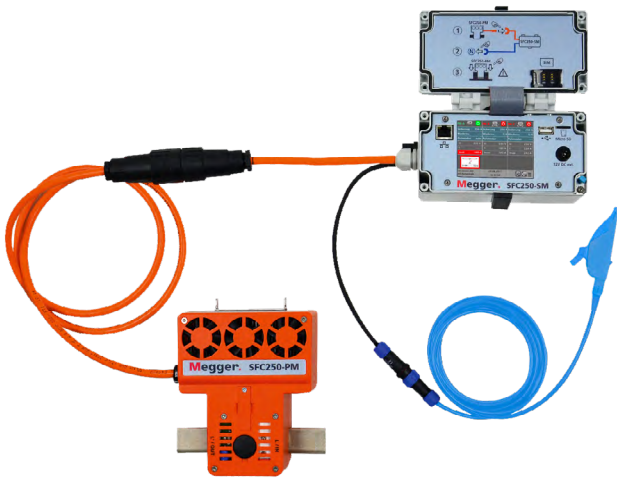


SMARTFUSE 2

Smart fuse system for monitoring and fault detection in low-voltage networks

Megger[®]



- Automatic power supply restart to minimise downtime
- Fault location with connected households
- Early warning of potential network overloads
- Secure remote access via mobile data network
- Compact 1-phase or 3-phase system
- **NEW:** 4G modem
- **NEW:** warning mechanism for high fault currents by phase angle control
- **NEW:** easyGO mode for quick and easy setup
- **NEW:** prelocation now always integrated

DESCRIPTION

Preventive warning and monitoring

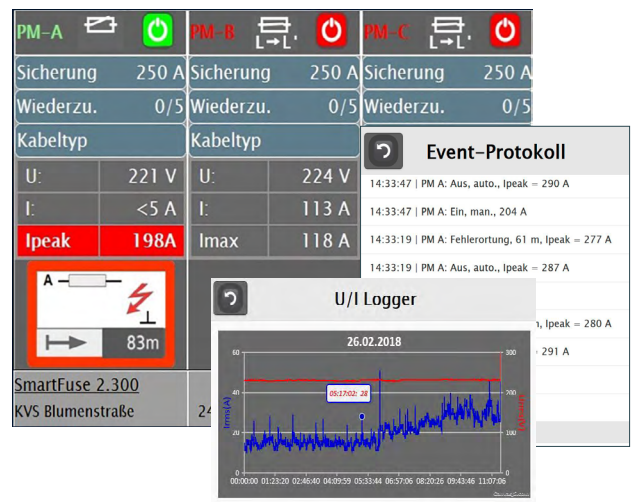
How can I know in advance when my low voltage network is overloaded? How can I minimise downtime? Using the SmartFuse2 in monitoring mode, you can monitor your power supply live. Current and voltage are measured in real time and displayed graphically. Set your own current warning threshold at which the SmartFuse2 will warn you automatically. You will receive a message via SMS or e-mail within a few seconds, so you have enough time to take countermeasures.

Automatic recovery of the power supply

How do I avoid the need for technician operations at weekends or at night? How do I reduce the operating times of my technician teams? With the SmartFuse2, you can decide for yourself how often the intelligent fuse should switch on automatically. This means that you can ensure the power supply despite intermittent faults until you have found and eliminated the cause, without having to engage technicians.

Prelocation

The SmartFuse2 shows the calculated fault distance in direct meters. No interpretation of a TDR pattern is necessary! In addition, the 3-phase system provides you with an accurate statement of the fault type: phase-to-N, phase-to-earth, phase-to-phase (phase-to-phase faults are named with the specific phases). Prelocation can be done using the SmartFuse2 with connected consumers, saving you time and money.



Pinpointing

Avoid the use of cable test vans, or shockwave generators. Use the power available on the grid. Your consumers can remain connected to the grid while you use the SmartFuse2 to automatically 'thump' the fault to flashover in a timed period. With the help of the digiPHONE+2 or the FaultSniffer2 you can locate the fault precisely.

NOTE: After the fifth successful pinpointing, the system has already been amortised, as you saved several hours of time and resources per operation (compared to conventional methods).

Smart fuse system for monitoring and fault location in low-voltage networks

GENERAL*

Triggering threshold	20 A to 250 A
Reclose attempts	0 ... unlimited
Waiting time until reclose	1 ... 120 seconds
Surge energy control	2 - 50 half-waves
Operating and storage conditions:	
Operating temperature	-20 °C ... +50 °C
Operating humidity	50% at +40 °C, 90% at +20 °C
Storage temperature	-25 °C ... +70 °C
Memory for mains failure	Non-volatile event memory
Supply voltage for power and control module	Directly via power module 100 V ... 240 V 50 Hz / 60 Hz 100 V ... 240 V 50 Hz / 60 Hz
Power consumption	20 VA + 1 W/A load current
Overvoltage category	to EN 60664: CAT IV 300 V

POWER MODULE*

Load current	max. 250 A continuous current
Short-circuit/surge current	max. 9000 A
Internal fuses	Load circuit: 800 A HC-type; internal supply: 1.25 A F
Cut-out capacity	200 kA
Display	LED for indicating the switching status
Housing dimensions (L x W x H)	130 x 155 x 82 mm (excluding grip lugs)
Weight	3.0 kg / 6.61 lbs.
Protection rating	IP 20
Compatibility	Fuse holder NH02 or NH03 (B ≤ 82 mm/3.23 in.)

CONTROL MODULE*

Control system	Colour touch display
Memory	Micro SD card, 16 GB
Display	Illuminated touch display (3.7 in.) LED for indicating the operating status (when the cover is closed)
Interfaces	GSM/UMTS modem (SIM card required) Integrated GPS receiver (external optional) USB 2.0 WLAN / LAN Wireless module (remote control activation)
Housing dimensions (L x W x H)	160 x 103 x 97 mm 6.3 in. x 4 in. x 3.8 in.
Weight	900 g / 1.98 lbs.
Protection rating	IP 42
Connections	Neutral conductor connection External trigger output (for reflectometer) Connection coupling for power module

ADAPTER MODULE*

Protection rating	IP 42
Dimensions (L x W x H)	160 x 80 x 90 mm 6.3 in. x 3.1 in. x 3.5 in.
Weight	450 g / 0.99 lbs.

REMOTE CONTROL*

Power supply	2 alkaline batteries, 1.5 V/LR 6 (AA)
Protection rating	IP 40
Dimensions (L x W x H)	140 x 63 x 30 mm 5.5 in. x 2.5 in. x 1.2 in.
Weight (with batteries)	150 g / 0.11 lbs.

* We reserve the right to make technical changes.

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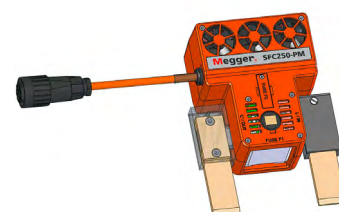
ORDERING INFORMATION		
Product	Description	Order no.
Sets:		
SmartFuse2 set 1-phase (SFC 250-2-1P-VS)	1x control module, 1x power module, 1x remote control, transport case incl. accessories	1013489
SmartFuse2 set 3-phase (SFC 250-2-3P-VS)	1x control module, 3x power module, 1x adapter module, 1x remote control, transport case incl. accessories	1013490
Upgrade set:		
SmartFuse2 expansion set from 1- to 3-phase (SFC 250-2-AS-VS)	2x power module, 1x adapter module	1013491
Options:		
Remote control	Tablet for optimal user comfort	1008357
1 Set mounting adapter NH2/NH3 (1 set per power module is required)	For fuse boards B ≤ 82 mm	2009960
External GPS-antenna (3m long)	To improve the GPS signal e.g. in houses, or transformer stations	2007960
Backup fuse 800 A (HC-Typ)	Replacement for the internal protection fuse of the power module	90007524



1 control module
1 power module



1 control module
3 power module
1 adapter module



SmartFuse2 fits into practically any control cabinet, with the NH2/NH3 fork adapter.

SALES OFFICE

Megger Germany GmbH
Dr.-Herbert-lann-Str. 6
96148 Baunach
Germany
T 0049 9544 68-0
E team.international@megger.com

SmartFuse2_DS_EN_V04

www.megger.com
ISO 9001
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