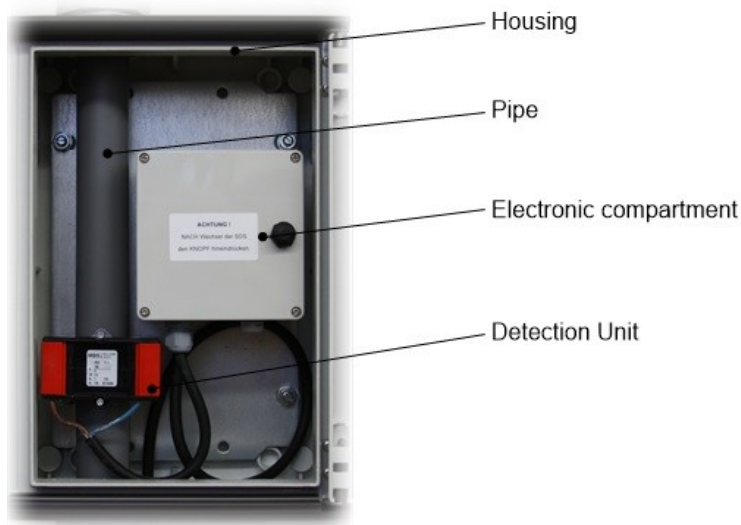


# SAM – Surge Arrestor Monitor

- SDSM



\* Product like copy

## Application

The device monitors the surge arrester (SA) within a certain railway section and reports broken ones via an integrated GSM-Modem. It requires no external power supply. The integrated high-performance battery has a maximum uptime of 5 years.

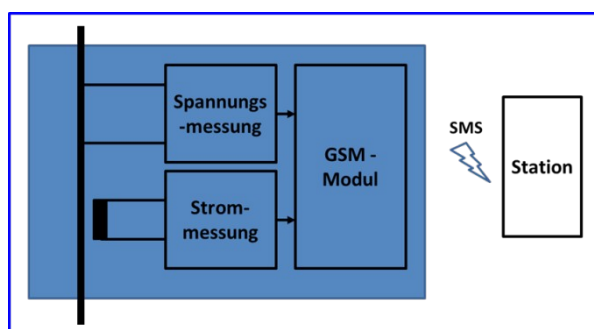
## Description

The monitoring device detects the condition of the fuse through contactless current- and voltage measurements. A defective fuse causes a report which will be transmitted by the GSM module. The device requires no auxiliary power supply and no signal lines.

## Function

The monitoring device measures the current and the voltage curve across the fuse. The measurements are made with an altering current transmitter. The current pulse generated by melting fuses triggers a reversible signalling contact. The voltage measurement additionally monitors the triggering criteria. An SMS will be sent by the GSM-Module if it gets a report.

## Block Diagram



## General Data

Temperature range	-20 ... 60 °C
Type of protection	Housing IP 66 (EN60529)
Test voltage	3 kV / 60 s
Connection SDS	vertical cable feed through D= 40 mm Measurement line
Material of housing	Polyester GFK
Color	RAL 7035 (grey)
Supply	internal Battery, uptime of max. 5 years

## Reports & Displays

Current (Shock if disruptive discharge occurs)	> 20 A
Voltage (measured by SDS)	< 3 V above adjustable timeframe
Current triggering	Report button (inside of the device)

## GSM

Report	SMS / E-Mail-Report, also on several Phone numbers
Status signal-interval	adjustable

## Dimensions

