

# secureF

## Overview and configuration



secureF is a procedure developed by KBR for monitoring fuse outputs. The function is executed on the bus master (system centers).

secureF includes the following functions:

| Type                          | Criterion  | Gearshift groups                            |
|-------------------------------|--|---|
| Advance warning / Information | Cyclical monitoring of the average value of the phase conductor currents. An individually adjustable % value of the fuse value can be monitored for each fuse to be monitored. If the % limit value is exceeded, the secureF pre-warning is triggered.             | 238 - Collective warning secureF Prewarning |
| Warning                       | Cyclical polling of the instantaneous values of the phase conductor currents. If the fuse value is exceeded for longer than specified in the 'Inertia' parameter, the secureF warning is issued.   | 239 - Collective warning secureF Warning    |
| Malfunction                   | Cyclical query of the instantaneous values of the phase voltages. If the instantaneous value of voltage PH-N is below the value of parameter 'Tripping voltage' AND the corresponding phase conductor current is zero, the secureF fault 'Fuse failure' is output. | 248 - Collective fault secureF Alarm        |

## Restriction

The times that can be set are minimum times. Depending on the constellation and configuration, it may take several seconds for new information to reach the bus master.

### From version 4.6 R6:

- In addition to falling below the voltage threshold, the associated current must be <1 for a fuse failure to be detected.

### From version 4.6 R1:

- The 'Inertia' parameter can be used to exclude brief exceedances, for example during motor start-up, from the alarm. A time of 1 to 60 seconds can be specified individually.
- Switching groups are assigned automatically.

### The following KBR eBus devices support the procedure:

- multicount (all types)
- multimes F96
- multimes F144
- multimes D4 (operation with multisio 6D6)
- multimes D6

## Configuration secureF

1. Make sure that the secureF function is activated in the 'Automation' properties at each eBus master location. Notification by e-mail can also be activated here.
2. Configure the individual fuse monitoring:

Currently, configuration is carried out via the device settings (eBus master). Later, configuration is planned via the selection of a corresponding fuse element in the distribution view. Navigate to the corresponding device and open the dialog for setting the device properties. If the device supports the secureF procedure, a corresponding properties page is displayed:

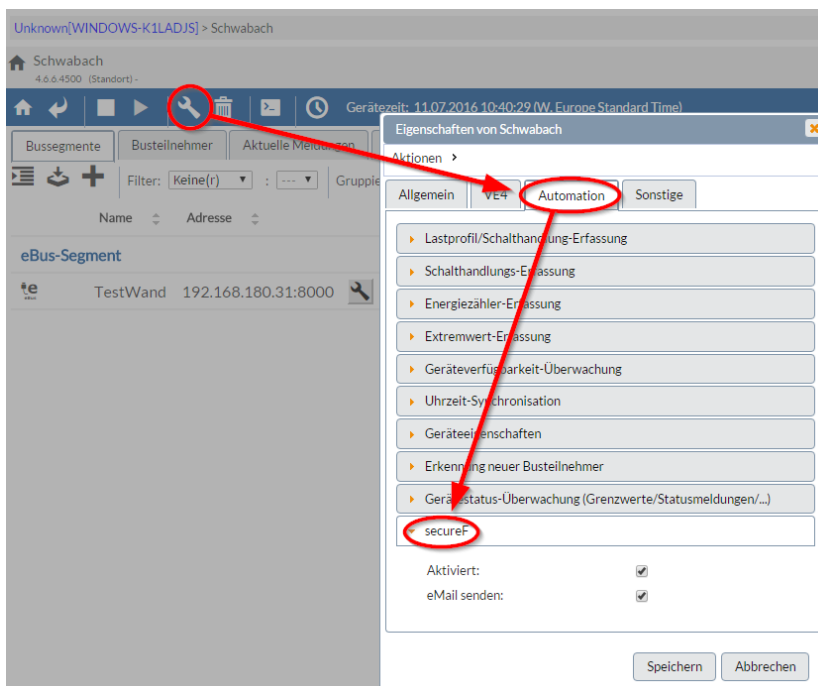


The screenshot shows a dialog box titled 'Eigenschaften von Trafo 1michelmm'. It has several tabs: 'Allgemein', 'Messparameter', 'Lastprofil', 'Tarifumschaltung', 'Grenzwerte', 'Ein-/Ausgänge', 'secureF', and 'Sonstige'. The 'secureF' tab is active, showing the following settings:

- Aktiviert:
- Sicherungswert:  A
- Warnschwelle:  % (=13.6 A)
- Auslöse-Spannung:  V
- Trägheit:  s
- VE4-Bezug:

Buttons for 'Speichern' and 'Abbrechen' are at the bottom right.

Please note that the secureF function is activated at this eBus master location. Here you can also set what should happen in the event of a trigger. In addition to sending an e-mail, it is also possible to output the respective event via the relays of a switching group:



The screenshot shows a larger application window with a sidebar and a main dialog box titled 'Eigenschaften von Schwabach'. The 'Automation' tab is active, showing a list of automation actions:

- Lastprofil/Schalthandlung-Erfassung
- Schalthandlungs-Erfassung
- Energiezähler-Erfassung
- Extremwert-Erfassung
- Geräteverfügbarkeit-Überwachung
- Uhrzeit-Synchronisation
- Geräteeigenschaften
- Erkennung neuer Busteilnehmer
- Gerätestatus-Überwachung (Grenzwerte/Statusmeldungen/...)
- secureF

The 'secureF' option is selected. Below the list, the following settings are visible:

- Aktiviert:
- eMail senden:

Buttons for 'Speichern' and 'Abbrechen' are at the bottom right. Red circles and arrows highlight the 'Automation' tab and the 'secureF' option.