

SAFETY DEVICE MODULE TYPE STS-C

with self monitoring double electrode system

Mode of operation

The safety device type STS-C is constructed according to the new EU standards prEN 50 156-1 for low-low water protection of steam boilers. (Low water Limiter).

The safety equipment consists of a double electrode and one amplifier box with redundancy amplifier units. Each with a separately relay with positively guided contacts.

The electrode determine the level by conductivity measuring. The power supply to the burner is switched off, and an alarm is activated, when the water level falls below the electrode. The instrument/module is automatically resets, when the water level is raised back to normally water level.

Electronic delay approx. 10 sec. eliminate disturbances from splash and rapid level variation. The instrument has a diagnostic test facility, by means of a test and a by-pass button

Module STS-C

The module/instrument is provide with a plug-in connection, and consists of unit for power supply, amplifiers, time delay relays, signal lamps (L.E.D.), test button and a by-pass button. The module is produced for panel wall or rail mounting, and is compensated against variations in the power supply, the conductivity and the ambient temperature.

If the power supply is disconnected more than 10 sec. the safety device will go into alarm position and must be manually resets.

The module is self checking "FAIL SAFE", even the electrode cable and the electrode insulator are controlled.

Electrode SME 32.2-S

The electrode can be delivered with flange connection in the Dim. DN50 - DN100 PN16 - PN64. The electrode is mounted into an electrode stand, installed directly in the steam drum.

Steam boilers with unattended operation must be supplied with two low water limiter. One of the low water electrodes must be placed into a separately connection piece in the boiler drum. The second low water electrode can be in combination with high water level alarm or feed water control.

