SET - POINT ADJUSTENT AND CALIBRATION
Conductivity Control Module Type EUS - SUS
Alarm by high conductivity - burner cut out.
Automatic desalination

Adjustment of set-point
The area selector *µs/cm* is set at the measuring area which is to be used.
0 - 10, 0 - 100, 0 - 1000, 0 - 10.000µs/cm

The display shows the present conductivity, but when the button SV1 - SV2 is pressed the chosen set-point can be shown.

Set point 1, alarm by high conductivity - burner cut out.
Set the area selector and press down the switch *SV1*, while you adjust the potentiometer *SV1* to the desired set-point which is shown at the display.

Set point 2, automatic on/off desalination
Repeat above procedure for setting of set- point 2. Press switch *SV2*, while you adjust the potentiometer *SV2.*
The desalination valve will open when the conductivity reach the set point and close again when the conductivity is below the set-point. (Hysteresis 2,5% of the area selector)
(Ex. area selector: 0 - 10.000µs/cm The valve will close approx. 250µs/cm below set- point.)
Please note, that if the area selector is moved to an other measuring area, the set points will have to be reset.

Calibration
After installation of the EUS/SUS module it has to be calibrated even though it is pre-calibrated when supplied. (An optimal calibration with 1 m cable).
Because of capacity in the cable and the placing of the PT 100 sensor, a measuring will cause different of the siemens value.
To calibrate the module it is necessary to use a siemens reference value of the boiler water. This referance value is normally determined by a measuring of the boiler water with a µ siemens instrument or by a buffer water solution.
Calibration of the module is done by adjustment of the potentiometer *Range pos.*

Display
The display can shown approx. 25% more than the area selector's max. ajustment area.
In the highest area 0 - 10.000 µs/cm the shown value shall be multiplied by x10.

Relay output - LED indication
When the conductivity rises to the chosen set- point the corresponding relay is energized and indicated by a red (SV1) and yellow (SV2) LED in the front of the module. The relay will deenergize when the conductivity falls below the selector switch setting.

Analogous Output
The analogous output proportionally follows the value shown in the display.
0 µs/cm = 4mA Max. µs/cm = 20mA. If the area selector setting is too low, the mA will exceed 20mA.