

## GESTRA Steam Systems

Product Range B2

### Limit Switch URS 2b

### URS 2

#### Description

Universal signalling of two limit values for MIN/MAX alarm. The equipment is connected to a measuring sensor with current output 0 - 20 mA or 4 - 20 mA.

Use e. g. in conjunction with GESTRA level transmitter NRT 2-1b, continuous blowdown controller LRR 1-5b and conductivity transmitter LRT 1-5b, LRT 1-6b, NRG 26-1.

#### Design

Plug-in unit in plastic case for installation in control cabinets. To access the terminals in the base remove the cover. Thanks to the code plug the equipment cannot be connected inadvertently to wrong GESTRA equipment.

The equipment may be clipped onto a 35 mm supporting rail or screwed into position on a mounting panel.

Field case for connecting one or more plastic plug-in units available on request.

#### Technical Data

##### Function

Universal limit switch with one MIN and one MAX contact for connecting a sensor with current output 0 to 20 mA or 4 to 20 mA.

##### Input

For measuring sensor with current output 0 to 20 mA (with external wire link for 4 to 20 mA), input resistance 100  $\Omega$ .

##### Output

2 volt-free relay contacts, contact rating 250 V, 500 W, 3 A resistive with a life of  $4 \times 10^5$  switching cycles or 0.35 A inductive with  $2 \times 10^6$  switching cycles, contact material: silver, hard gold plated.

##### Switching hysteresis

1 %

##### Adjuster

Two adjusters with scales 0 - 100 % for MAX and MIN alarm, continuously adjustable.

##### Indicators

One LED for MAX alarm and one LED for MIN alarm.

##### Mains voltage

24 V, 110 V, 120 V, 220 V, 240 V, 50 to 100 Hz, 3.5 VA (please state voltage when ordering), ancillary unit URN-1 can also be fed with 24 V DC.

##### Protection

IP 40

##### Max. admissible ambient temperature

0 - 50 °C

##### Housing material

Base: ABS, black

Cover: polystyrol (highly shock resistant), stone grey.

##### Weight

Approx. 0.5 kg

#### Interference suppression for inductive loads

When switching off inductive loads voltage spikes are produced that can be several times higher than the mains voltage.

As a result:

1. the function of control and measuring equipment may be impaired and
2. the service life of the contact relays is reduced due to electric arcs.

We recommend to provide inductive loads with commercial arc suppressor RC combinations, e. g. 0.1  $\mu\text{F}/100 \Omega$ .



# Limit Switch URS 2b

## Important Notes

The limit switch URS 2b can be connected to all measuring sensors with current output 0/4 to 20 mA. GESTRA measuring sensors are listed further below.

## Order & Enquiry Specification

GESTRA limit switch for two limit values, in conjunction with measuring sensor with current output:

Limit switch URS 2b

Plug-in unit in plastic case for installation in control cabinets.

Mains voltage.....V

## System Components

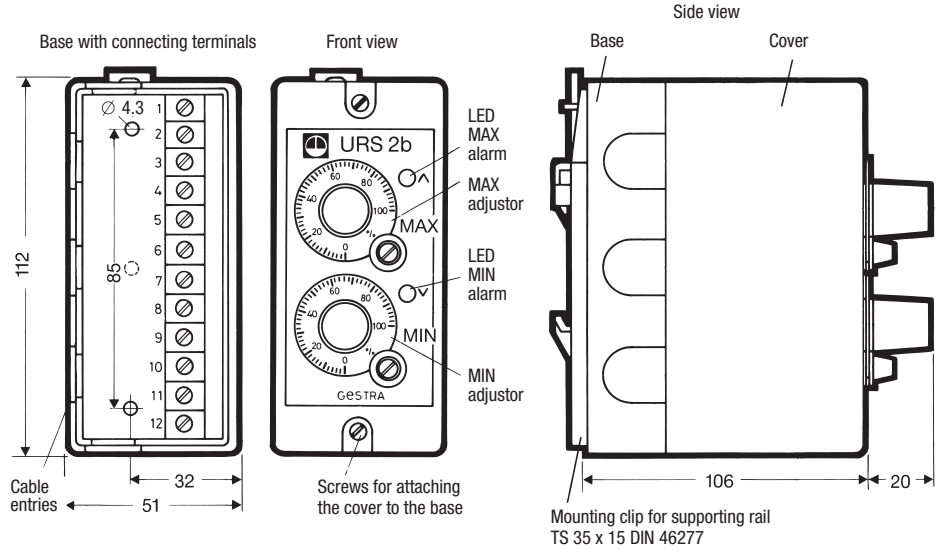
Level monitoring system NRG 26-1

Level transmitter NRT 2-1b for level indication;

Continuous blowdown controller LRR 1-5b for continuous boiler blowdown;

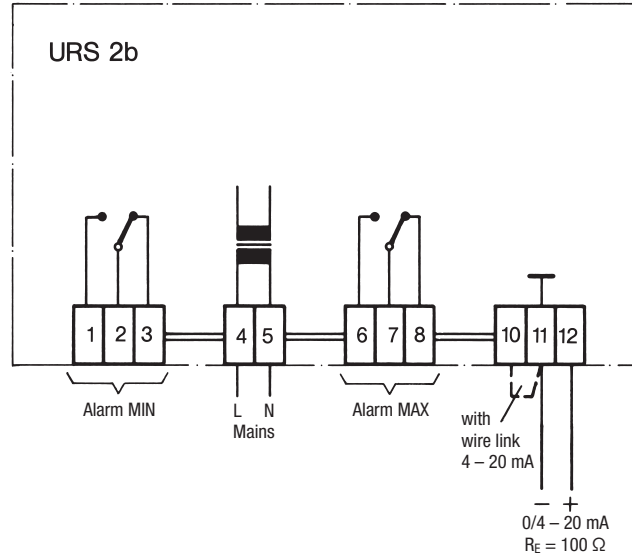
Conductivity transmitter LRT 1-5b, LRT 1-6b for conductivity monitoring of liquids.

## Dimensions



Dimensions of limit switch URS 2b

## Wiring diagram



Wiring diagram for limit switch URS 2b, drawn position of contacts: de-energized / alarm

Supply in accordance with our general terms of business.

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