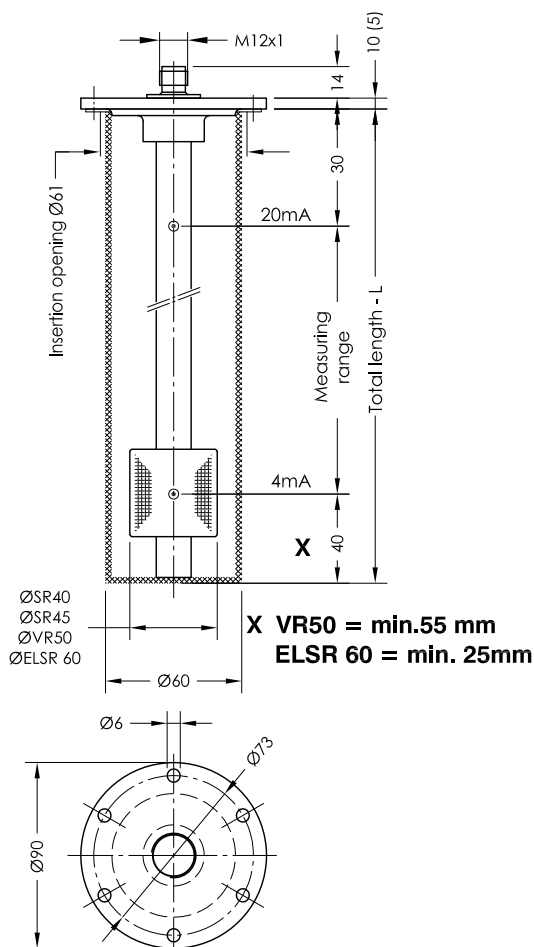


# NR 85 - MA

Level - temperature controller with resistance measuring chain  
and resistance thermometer, output 4-20 mA

serial No. Date  
MA-GB- 308 07/20



according to  
DIN24557 part 2

Pin assignment

Order code

## Plug securing power supply

**3-polig + PE**  
**EN 175301-803 (DIN 43650)**  
level 1 = +12-30V DC  
2 = level

**M12 - 5 polig**  
level 1 = +12-30V DC  
4 = level

**3-polig + PE**  
**EN 175301-803 (DIN 43650)**  
level 1 = +12-30V DC  
+ temperature 2 = level  
3 = temperature

**M12 - 5-polig**  
**and**  
**6 pol. + PE**  
**and**  
**6+PE - EN 175201-804 (DIN 43651)**  
level 1 = +12-30V DC  
+ temperature 4 = level  
2 = temperature

**separate**  
level 1 = +12-30V DC  
4 = level  
+ temperature 2 = +12-30V DC  
3 = temperature  
5 = Thermocontact  
6 = Thermocontact

## Specimen order

**NR 85-MAS-SR45-L300-T-0-MS-M12**

MA = without protective tube  
MAS = with protective tube

Float type  
SR40 with attachment 25mm  
SR45  
VR50  
ELSR 60

Total length-L  
switching tube (mm)  
Standard length (special length)  
L=250 L=900 L=1500  
L=370 L=1000 L=1600  
L=500 L=1100 L=1700  
L=600 L=1200 L=1800  
L=700 L=1300 L=1900  
L=800 L=1400 L=2000

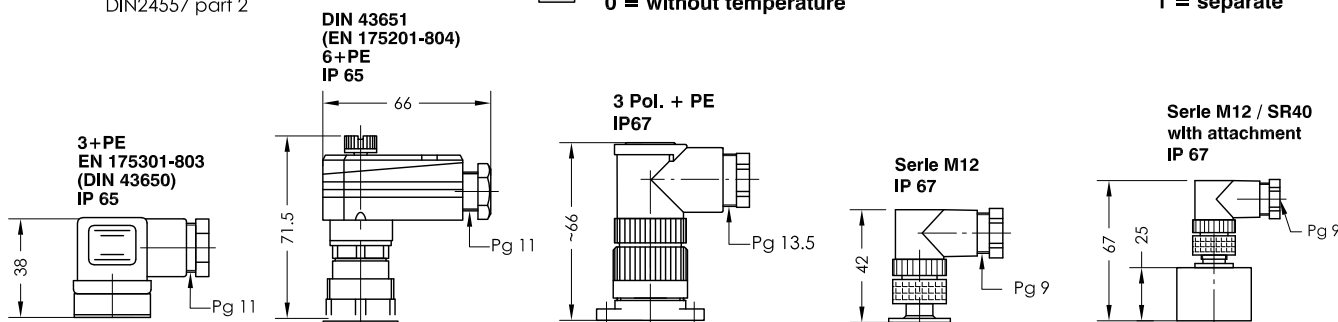
T = temperature  
0 = without temperature

Plug socket connector  
3+PE  
DIN 43651  
M12  
3 pol. + PE

Execution  
MS = Brass  
VA = Flange,  
Switching tube  
and float  
stainless steel  
VAPA = Flange PA,  
Switching tube  
stainless steel

0 = combined  
1 = separate

Connector variants



## Description

The level temperature regulator, type NR 85 - MA designed for container installation, is a contact less electromagnetic switch serving for continuous teletransmission of liquid levels and temperature.

Via cables of any length, level and temperature can be continuously evaluated for automatic control and display. The level controller contains a resistance measuring chain and a Pt100 resistor.

The level and temperature dependent signal is converted in the integrated measuring transducer into a linear current change of 4-20mA. Optionally fixed mounted bistable level contacts can be installed additionally.

The level controller is maintenance-free when nondeposit media are used.

The device must only be installed by specialists.

Max. viscosity SR 45 - 320mm<sup>2</sup>/S  
VR 50 - 320mm<sup>2</sup>/S

## Technical data

Protective tube	Stainless steel
Switching tube	Brass or stainless steel max. L 2000mm
Connection flange	Polyamide or stainless steel with flat seal
Nominal pressure	1 bar max. - float Hard-PU SR40, SR45 10 bar max. - float, Flange stainless steel VR50 ELSR 60
Temperature of medium	100°C max.
Operating voltage	12V ... 30V DC
Measuring range	4-20 mA = 0-100 °C
Thermal element	Pt100
Contact pitch	7,5 mm
Load	RB = U-12V 20mA
Mounting position	vertical ± 30°
Other temperature ranges on request	



**GOLDAMMER**  
REGELUNGSTECHNIK GMBH