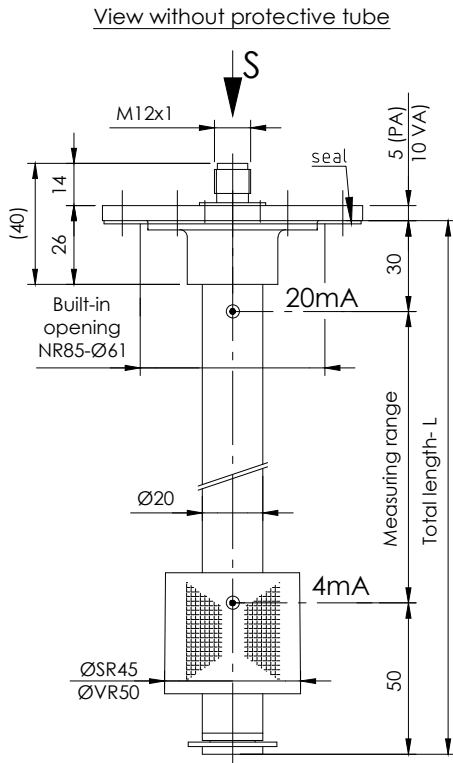


NR 85 - MA - EExi

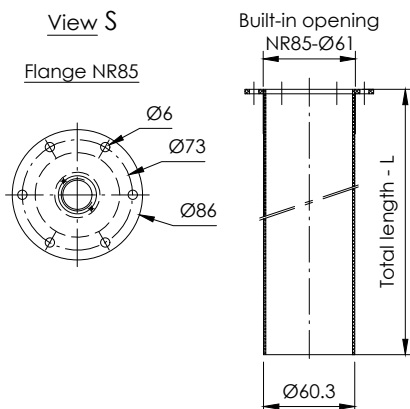
Level - temperature regulator with resistance measuring chain and resistance thermometer, output 4-20 mA



serial No. Date
EX - GB - 308 06/26



View protective tube

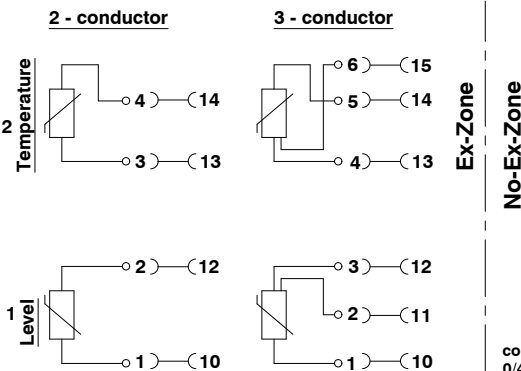


Plug assignment

Order code

Connector variants

Input Configuration



contained in the scope of delivery:
0/4-20mA Transmitter - sheet EX-GB-902
Measuring range configured
Item number 9182/10-51-13 - 1-channel level
Item number 9182/20-51-11 - 2-channel level
+ temperature

Specimen order

NR85 - MA - EExi - SR45 - L370 - T - MS - II - M12

Tank connection:
Flange NR85

Float type
SR45
VR50

T = Temperature
O = without
Temperature

II = 2 - conductor
III = 3 - conductor

MA = without
protective tube
MAS = with
protective tube

Total length-L
(special length)
switching tube (mm)
Standard length

L = 250	L = 1200
L = 370	L = 1300
L = 500	L = 1400
L = 600	L = 1500
L = 700	L = 1600
L = 800	L = 1700
L = 900	L = 1800
L = 1000	L = 1900
L = 1100	L = 2000

Execution:

MS - Brass
VA - Stainless steel
Flange,
Switching tube,
Protective tube
VAPA - Flange (PA)
- Switching tube (VA)
PA - Polyamide

Plug socket connector:
M12 - 24V
3+PE-DIN 43650
6+PE-DIN 43651
HAN I
HAN II

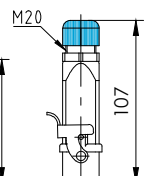
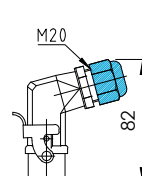
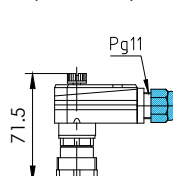
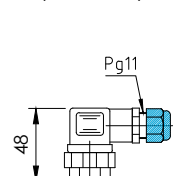
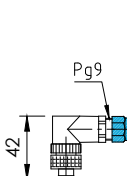
Plug connection
M12 IP67
5-polig

Plug connection
3+PE IP65
EN 175301-803
(DIN 43650)

Plug connection
6+PE IP65
EN 175201-804
(DIN 43651)

HAN I
IP65

HAN II
IP65



Description

The level temperature regulator, type NR 85 - MA - EExi designed for container installation, is a contactless 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.

As the fill level changes, the total resistance changes and is converted into a 4-20 mA signal by an Ex-approved transmitter (sheet EX-D-902) installed in the non-hazardous (EX) area. As the temperature changes, the Pt100 alters its resistance, which is likewise converted into a 4-20 mA signal in the non-hazardous (EX) area.

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

The device must only be installed by specialists.

Max. viscosity 320mm²/S

Technical data

Protective tube	Stainless steel (VA)
Switching tube	Brass (MS), Stainless steel (VA) max. L = 2000mm
Connecting flange	NR85, Polyamide (PA) or Stainless steel (VA) with flat seal
Nominal pressure	1 bar max. - Float SR45 10 bar max. - Float VR50
Float	Hard PU, Type: SR45 Stainless steel, Type: VR50
Temperature of medium	100°C max.
Measuring range	4-20 mA = 0-100°C
Thermal element	Pt100, II / III-conductor / Datasheet: IN-005
Measurement chain	II / III-conductor for connection to EExi transmitters
Contact grid	7,5mm
electrical Connection	For connection to certified intrinsically safe circuits in type of protection EExi only, EN 60079-11, suitable for Group II Category 2 (Zones 1 and 21), Category 3 (Zones 2 and 22), temperature class IIC-T4.
Installed position	vertical ± 30°
Other temperature ranges	on request.

Technical data



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