

# level transmitter

## ATM/N

# 08.SIM



### Functional characteristics

Ranges: 0...0,1/0...25 bar, relative.  
 Accuracy (% F.S.V. included linearity, hysteresys and repeatability):  
 - 0,5 (- 0,1 with option K01; - 0,25 with option K02).  
 Calibration: zero-point as per DIN 16086.  
 Annual drift (1 year):  
 < 0,4 mbar, for pressure ranges up to 2 bar;  
 < 0,2% F.S.V.  
 Ambient temperature: 0...+70 °C.

### Constructive characteristics


Wetted parts: AISI 316L st.st.  
 Sensor: piezoresistive.  
 Cable: polyurethane, compensated.  
 Protection: submersible.

### Electrical characteristics

Output signals: 4...20 mA, 0...5 Vdc, 0...10 Vdc.  
 Supply and max load: see on page 2.  
 Compensated temperature range: 0...+70 °C.

Ranges bar, relative (1)	Overpressure (2) bar, relative	Thermal drift (3) bar, relative
0,1...0,5	3 (200)	0,06
> 0,5...2	3 x F.S. (200)	0,03
> 2...25	3 x F.S. (200)	0,015

(1) Unit of measurement: as requested.  
 (2) Burst pressure between brackets.  
 (3) Value shown is zero thermal drift. Span thermal drift is  
 $\pm 0,015\%$  F.S.V./°C

 Compliance to requirements of  
 EMC directives : 89/336/EEC.

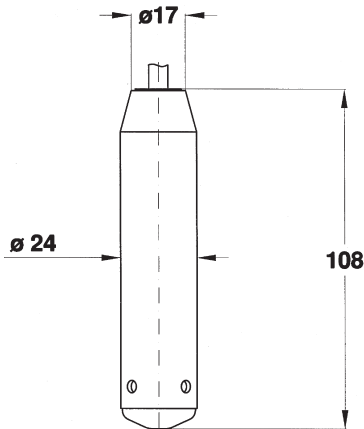
#### EMISSION standards references

EN 50081-1 (1992) "Generic emission standard"  
 EN 55022 (1994) "Emission, class B"

#### IMMUNITY standards references

EN 50082-2 (1995) "Industrial env. immunity standard"  
 EN 61000-4-2 (1995) "Electrostatic discharge"  
 ENV 50140 (1993) "Radiated electromagnetic fields"  
 ENV 50204 (1995) "Radiated electromagnetic fields (GSM)"  
 EN 61000-4-4 (1995) "Electrical fast transient/burst"

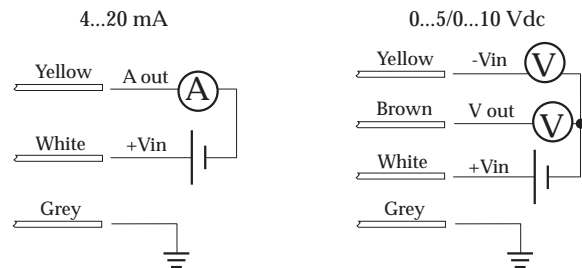
## DIMENSIONS (mm.)



Weight : kg. 0,17

## WIRING

Output signals	4...20 mA	0...5 Vdc	0...10 Vdc
N. of wires	2	3	3
Load (Ohm)	$R_L - (V_{in}-9)/0,02$	10 K $\Omega$ min.	10 K $\Omega$ min.
Supply: +Vin	9...33	15...30	15...30



## HOW TO ORDER

CODE & DESCRIPTION	
08	08 - electronic instruments
SIM	SIM - level transmitter ATM/N, with piezoresistive sensor
000	
C	B : 0...0,1 / <0...0,4 bar, relative C : 0...0,4 / 0...600 bar, relative
0...1 bar	See ranges table
000	
109	109 - 4...20 mA; +Vin:9...33 Vdc 405 - 0...5 Vdc; +Vin: 15...30 Vdc 505 - 0...10 Vdc; +Vin:15...30 Vdc
K02	See options table

+

08	08 - electronic instruments
CPU	CPU - poliurethane cable, compensated
0000	
15	mt. length
000	
000	

## CODE

## OPTIONS

Protection degree circuit for lightning discharge	ANF
Intrinsic safety version Eex ia IIC T6, for 4...20 mA only	EEX
Accuracy - 0,1 % F.S.V., for pressure ranges >0,5...25 bar	K01
Accuracy - 0,25 % F.S.V.	K02

## ACCESSORIES

Digital indicator: Please see in datasheets "211" and "220".



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