

Remote Control MAGNODUL®

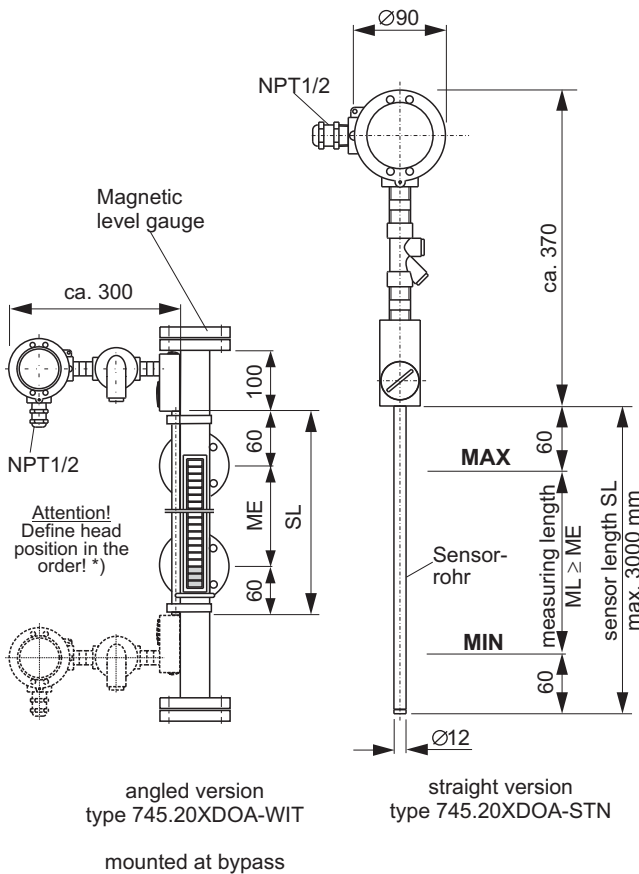
Digital magnetostrictive remote control
high resolution
high magnetic field sensitivity for float magnets
2-wire 4-20 mA passive
HART optional

Product group **745**

Type **20XX**

Sheet: 1/1 Revision: 12

Date: 06/09



Field of Application

This Sensor MAGNODUL® is for measuring the liquid level/ullage in a magnetic level gauge Type 710.104/098 and is a supplement to the local indicator. Ex classification Ex d. Output signal analogue and/or digital.

Principle of function

The sensor is a magnetostrictive wire, which is flowed through by a short current pulse. From the place of the float magnet a torque wave proceeds, whose running time is a measure for the level.

General Data

Resolution: 0.1 mm
Linearity: ±0.5 mm
Hysteresis (depends on float): >0.5 mm
Weight: ca. 1.5 kg + 5 g/cm

Design Data

Pressure: atmospherically
Temperature storage: -25...+85 °C
Temperature medium max: -200...+150 °C
Temperature ambient: -20...+60 °C
Material Sensor tube/housing: SS/Aluminum
Measuring length: 100...3000 mm
depends on positioning and magnet system

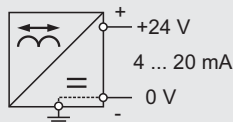
Ex-classification: II 2 G Ex d [ib] ib IIC T6...T1

Electrical Data

Supply voltage: 24 VDC ±20%
Current loop 2-wire: 4...20 mA (NAMUR)
Digital interface: HART (optional)
Cable gland: NPT1/2"
Wire cross section max.: 1.5 mm²
Cable length: max. 500 m at 0.5 mm²
Ingress protection EN 60529: IP66/67

measures in mm
*) Do not twist head or the device loses the Ex-approval!

Connection diagram



The instructions in the manual must be observed!

Certificates

EC-Type Examination Certificate: ZELM 08 ATEX 0377
SIL level: SIL 1

Subject to alterations

Ordering no.

7 4 5 . 2 0 X D O A - X X X X - X X X X		Selection key	Sensor length SL in mm e. g. 0600 = 600 mm
Interface	4...20 mA	0	
	HART (4...20 mA)	H	
Application	Ex d	D	
		U up	head position
		D down	
		S T N straight	Execution
		W I T angled	
		A Aluminum housing Ex d	Variant

PHÖNIX

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