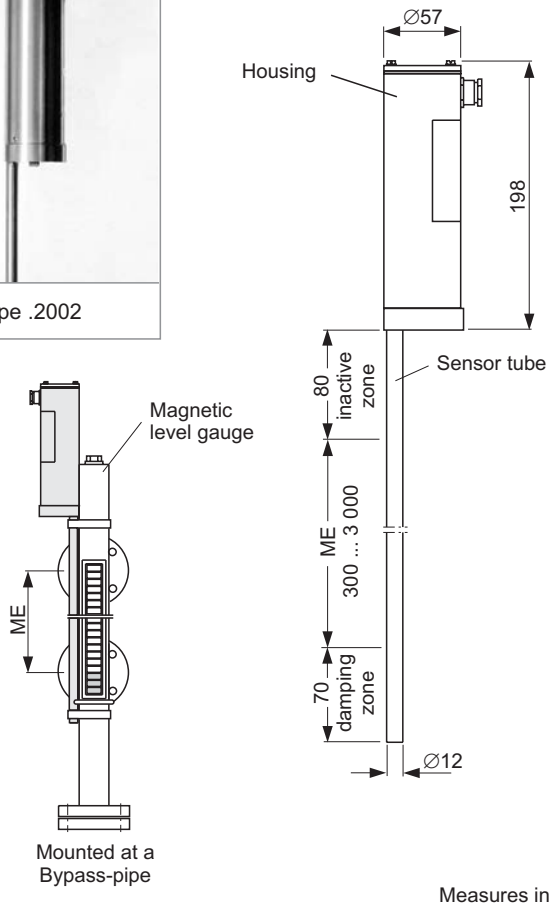
Remote Control MAGNODUL®

Electronic remote control with a magnetostrictive Sensor
high resolution
high magnetic field sensitivity for float magnets
2-wire 4-20 mA passive

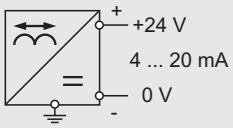
Product group	**745**
Type	**200X**
Sheet: 1/1	Revision: 4
Date:	01/05

Type .2002



Measures in mm

Connection diagram



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. It can be used in Ex-Zone 1 and 2.

Principle of function

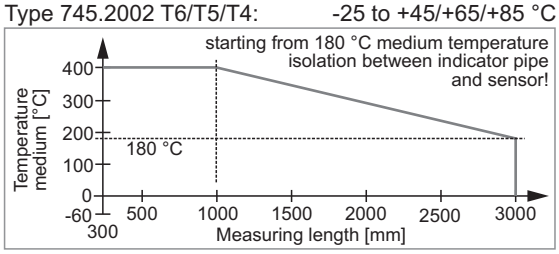
The sensor is a magnetostrictive wire, which is flowed through by a short current pulse. From the place of the float magnet a torque wave proceeds, whose running time is a measure for the level.

General Data

Accuracy:	≤ 0,05 % of ME or ± 2 mm
Resolution:	< 0,1 mm
Linearity:	≤ 0,07 % of ME or ±0,5 mm
Hysteresis:	< 10 mm
Temperature coefficient:	0,025 % of ME/K
Innage/Ullage:	Innage preset at works
Weight:	ca. 1,5 kg + 5 g/cm

Design Data

Pressure:	same as magnetic level gauge
Temperature storage:	-45 to +85 °C
Temperature ambient Type 745.2001:	-40 to +85 °C
Type 745.2002 T6/T5/T4:	-25 to +45/+65/+85 °C



Material Sensor tube and housing:	SS
Measuring length:	300 to 3000 mm
Ex-classification:	II 2 G EEx ia IIC T6/T5/T4
$U_i/I_i/P_i/L_i/C_i$:	30 V/100 mA/1 W/≤ 0,3 mH/<10nF

Electrical Data

Supply voltage:	10 to 30 VDC
Current loop 2-wire:	4 to 20 mA
Burden R:	R=(U-10 V)/0,02 A
Cable gland:	M16x1,5, for Ex blue
Cross section wire max:	1,5 mm^2
Cable length:	max. 2000 m at 0,5 mm^2
Ingress protection EN 60529:	IP65

Certificates

EC-Type Examination Certificate: ZELM 03 ATEX 0132
Subject to alterations

Ordering no.

7	4	5	.	2	0	0	X	-	X	X	X	X

Standard	1
Ex	2

Center to center ME in mm
e. g. 0600 = 600 mm

PHÖNIX
Messtechnik GmbH
Salzschlirfer Straße 13
D-60386 Frankfurt/M.
Tel. +49/69/41 67 42 -20
Fax +49/69/41 67 42 - 29
sales@phoenix-mt.com
www.phoenix-mt.com