

- Level transmitter with metal sensor
- Fully welded stainless steel design
- Ranges from 10 mbar to 25 bar
- Digital 4...20 mA output with HART protocol
- Range is individually configurable
- Accuracy $\leq 0,25\%$
- Ex II 1G Ex ia IIC T4/T6 Ga
- Optional integrated Pt 100 / Pt 1000 Sensor for temperature measurement



Level transmitter GT 310 / GT 310T



Ranges:	0...10 mbar up to 0...25 bar
Output signal:	4...20 mA 2-wire with multiplexed HART protocol
Accuracy:	$\leq \pm 0,25\%$ FS @ 25°C $\leq \pm 0,5\%$ FS ($\leq 0...250\text{mbar}$)
Non-repeatability:	$\leq \pm 0,1\%$ FS
Response time:	200 ms
Supply voltage:	12...30V DC
Ambient temperature:	-20...100 °C
Process temperature:	-20...100 °C
Temperature coeff.:	$\leq \pm 0,02\%$ FS/K (zero point) $\leq \pm 0,04\%$ FS/K ($\leq 0...250\text{mbar}$) $\leq \pm 0,02\%$ FS/K (range)
Long term stability:	$\leq \pm 0,2\%$ FS p. a.
Housing:	CrNi-Steel 1.4571
Protection class:	IP 68
Weight of sensor:	about 0,25 kg
Weight of cable:	about 0,6 kg / 10m
Electrical connection:	FEP cable with pressure compensation capillary and filter



Measuring range

Type code

Range	Code	Smallest adjustable range	Over pressure (bar)	Burst pressure (bar)
0...400 mbar	03	0...100 mbar	2	2,4
0...600 mbar	04	0...150 mbar	4	4,8
0...1 bar	05	0...250 mbar	5	6
0...1,6 bar	06	0...400 mbar	10	12
0...2,5 bar	07	0...625 mbar	10	12
0...4 bar	08	0...1 bar	17	20
0...6 bar	09	0...1,5 bar	35	42
0...10 bar	10	0...2,5 bar	35	42
0...16 bar	11	0...4 bar	80	96
0...20 bar	B5	0...5 bar	80	96
0...4 mWC	53	0...1 mWC	2	2,4
0...6 mWC	54	0...1,5 mWC	4	5
0...10 mWC	55	0...2,5 mWC	5	6
0...16 mWC	56	0...4 mWC	10	12
0...25 mWC	57	0...6,25 mWC	10	12
0...40 mWC	58	0...10 mWC	17	20
0...60 mWC	59	0...15 mWC	35	42
0...100 mWC	60	0...25 mWC	35	42

Output signal

EH 4...20 mA / HART Ⓢ II 1G Ex ia IIC T4/T6 Ga
 TH 4...20 mA / HART Ⓢ II 1G Ex ia IIC T4/T6 Ga + Pt 100 sensor
 FH 4...20 mA / HART Ⓢ II 1G Ex ia IIC T4/T6 Ga + Pt 1000 sensor

Measuring range

See table
 99 special range

Material housing

1 CrNi-Stahl 1.4571
 2 Hastelloy
 9 Other upon request

Std. cable length

from 5m to 50m
 002 2m cable only in 5m steps
 005 5m cable
 010 10m cable from 50m only in
 050 50m cable 10m steps
 Special lengths quote in meters

Material protection cap

1 CrNi-Steel 1.4571
 2 Hastelloy
 9 Other upon request

Material cable

6 FEP cable

Options

0 without

Electrical characteristics for explosion protection

Pressure signal:

Temperature signal:

$U_i \leq 30\text{ V}$

$U_i \leq 20\text{ V}$

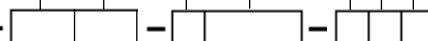
$I_i \leq 150\text{ mA}$

$I_i \leq 320\text{ mA}$

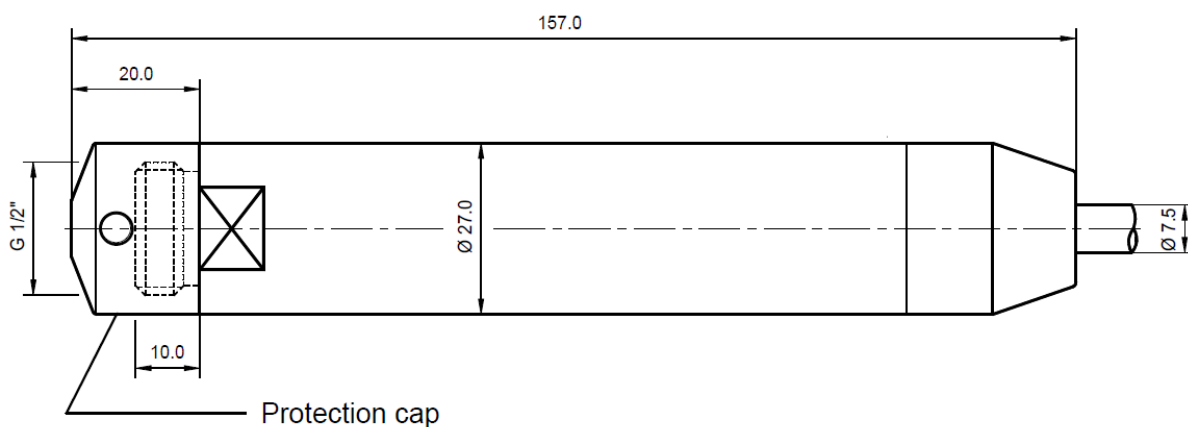
$P_i \leq 700\text{ mW}$

$P_i \leq 100\text{ mW}$

GT310 / GT310T

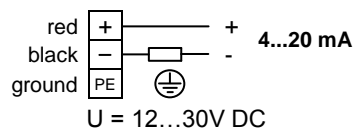


Dimensions (mm)



Electrical connection

4...20 mA, 2-wire



4...20 mA, 2-wire with Pt 100 / Pt 1000 temperature sensor, 3-wire

