

radar level transmitter

Not to be supplied in France, Germany, Great Britain and Sweden

Continuous level measurement without contact for solids and powder

Range 35 m

Process pressure 40 bar

2 / 4 wires technology

Pulse Radar at 26 GHz (K-band)

ATEX



It is a radar sensor for bulk solids materials continuous measurement. Suitable for application in silos, also in hard working conditions. Suitable for level measurement in tanks with 1 1/2 "G threaded or flanged connection. The different antenna models and the wide temperature and pressure range make this radar sensor the optimal solution for nearly all kinds of application.

TECHNICAL FEATURES

Frequency

K group (26GHz)

Housing / Antenna material

aluminum / SS316L; PTFE

Mechanical installation

threaded G1 1/2 ; flange DN 50; 80; 100; 150; 200; 250

IP rating

IP67/IP68 (Sensor)

Electrical connection

Terminals

Working temperature

-40° ÷ +130°C / -60° ÷ +250°C

Pressure

-1 a 40 bar

Power supply

24Vdc; 230Vac

Certification

ATEX

Analog output

4÷20mA

Digital communication

HART

Measure range

35 mt

Accuracy

±10mm

Resolution

1mm.

Calibraton

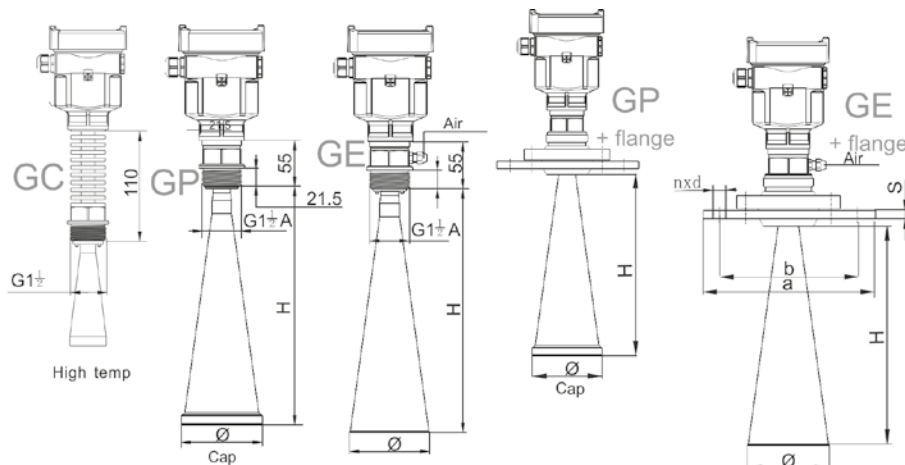
4 buttons or via HART

Warm up

5 minutes

Display

Plug-in display/keyboard 4 buttons matrix LCD



(Cod.)ΦAnt.	H	An.Mat.
(B) Φ 48	140	SST316
(C) Φ 78	227	SST316
(H) Φ 98	288	SST316
(J) Φ 123	620	SST316
(M) Φ 98 + Cap	300	SST316
(P) Φ 123 + Cap	625	SST316

Radar level transmitter

Micro-waves pulse 26GHz group K  
 For bulk solids and powders storage or process applications  
 Max distance: 35m  
 Accuracy: ±10mm  
 Process pressure: -1+40bar

Version	
I	ATEX II 1 G/D Ex ia IIC T6...3 Ga / Ex ia IIIC T76°C...T146°C Da - only with G housing and B electronic
P	Standard
Antenna shape / Material	
B	Horn antenna Ø48mm / SS316L
C	Horn antenna Ø78mm / SS316L
H	Horn antenna Ø98mm / SS316L
J	Horn antenna Ø123mm / SST316L
M	Horn antenna Ø98mm / SST316L with PTFE cap
P	Horn antenna Ø123mm / SST316L with PTFE cap
Q	Parabolic horn Ø198mm / SST316L
R	Parabolic horn Ø246mm / SST316L
Z	Special
Process connection / Material	
GC	Thread G 1" ½ with cooling fin / SS316L (-60° + +250°C)
GE	Thread G 1" ½ / SS316L with blowing in connection (-40° + +130°C)
GP	Thread G 1" ½ / SS316L (-40° + +130°C)
ZZ	Special
Additional flange (DN / Material)	
FA	DN50 / PP
FB	DN50 / PTFE
FC	DN50 / SS316
GA	DN80 / PP
GB	DN80 / PTFE
GC	DN80 / SS316
HA	DN100 / PP
HB	DN100 / PTFE
HC	DN100 / SS316
HE	Aiming device DN100 / SS316
JA	DN150 / PP
JB	DN150 / PTFE
JC	DN150 / SS316
JE	Aiming device DN150 / SS316
KA	DN200 / PP
KB	DN200 / PTFE
KC	DN200 / SS316
KE	Aiming device DN200 / SS316
LA	DN250 / PP
LB	DN250 / PTFE
LC	DN250 / SS316
LE	Aiming device DN250 / SS316
OO	None
ZZ	Special
Seal / Process temperature	
2	Viton / -40+130°C
3	Kalrez / -60+250°C
Electronic preamplifier	
A	None
B	4+20mA HART (2-wire); 24Vdc - compulsory for ATEX version
C	4+20mA HART (4-wire); 24Vdc
D	4+20mA HART (4-wire); 230Vac
R	10+30 Vdc MODBUS RTU
Housing / Housing protection / Antenna protection	
D	Aluminum 2 chambers (for 4-wire versions) / IP67 / IP68
G	SS316L / IP67 / IP68 - compulsory for ATEX version
U	Aluminum with transparent cap / IP67 / IP68
Z	Special
Cable entry	
M	M20x1,5