BEMA Instruments

info@bemainstruments.com - www.bemainstruments.com

radar level transmitter

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

Continuous level measurement without contact for solids and powders

Range 70 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 continuous measurement. Suitable for application in silos and storage in large sheds, also in hard working conditions. Suitable for level measurement in tanks with 1 $\frac{1}{2}$ "G threaded or flanged connection. The different antenna models and the wide temperature and pressure range make the 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

70 mt

Accuracy

±15mm

Resolution

1mm.

Calibraton

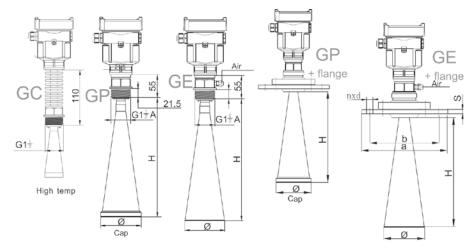
4 buttons or via HART

Warm up

5 minutes

Display

Plug-in display/keyboard 4 buttons matrix LCD



(Cod.)ΦAnt.	Н	An.Mat.
(B) Φ 48	140	SST316
(C) Φ 78	227	SST316
(H) Φ98	288	SST316
(J) Φ 123	620	SST316
(M)Φ98 + Cap	300	SST316
(P) Φ 123 + Cap	625	SST316

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Radar level transmitter

Micro-waves pulse 26GHz group K For bulk solids and powders storage or process applications Max distance: 70m Accuracy: ±15mm Process pressure: -1÷40bar

	Version			
	ı	ATEX II 1 G/D Ex ia IIC T63 Ga / Ex ia IIIC T76°CT146°C Da - only with G housing and B electronic		
	Р	Standard		
	Antenna s	tenna shape / Material		
	B Horn antenna Ø48mm / SS316L			
	С	Horn antenna Ø78mm / SS316L		
	Н	Horn antenna Ø98mm / SS316L		
	J	Horn antenna Ø123mm / SST316L		
	М	Horn antenna Ø98mm / SST316L with PTFE cap		
	Р	Horn antenna Ø123mm / SST316L with PTFE cap		
	Q	Parabolic horn Ø198mm / SST316L		
	R	Parabolic horn Ø246mm / SST316L		
	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 Special		
	Additional flange (DN / Material)			
	FA FB	DN50 / PP DN50 / PTFE		
		DN50 / SS316		
	FC	DN80 / PP		
	GA GB	DN80 / PTFE		
	GC	DN80 / SS316		
	HA	DN100 / PP		
	HB	DN100 / PTFE		
		DN100 / SS316		
	HC HE	Aiming device DN100 / SS316		
	JA	DN150 / PP		
	JB	DN150 / PTFE		
	JC	DN150 / SS316		
	JE			
	KA	Aiming device DN150 / SS316 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		
-	00	None		
	ZZ	Special		
	Seal / Process temperature			
	3	Viton / -40÷130°C Kalrez / -60÷250°C		
		preamplifier		
	A	None		
	В	4÷20mA HART (2-wire); 24Vdc - compulsory for ATEX version		
	C	4÷20mA HART (4wire); 24Vdc		
	D	4+20mA HART (4-wire); 230Vac		
	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 enti	ry		
	М	M20x1,5		
K	Keyboard/display programming module			
	A	Yes		
	Х	No		