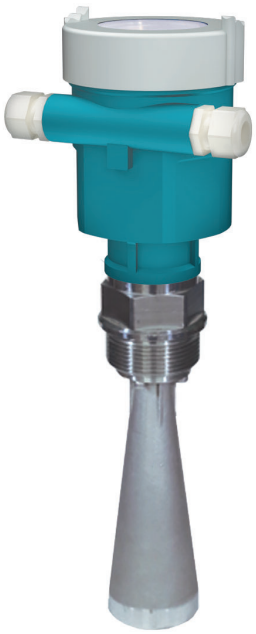


RPL56

Radar level transmitter

Continuous level measurement without contact for solids, liquids, pastes and slurries

Range 30 m

Process pressure 40 bar

2 /4 wires technology

Pulse Radar at 26 GHz (K-band)

ATEX

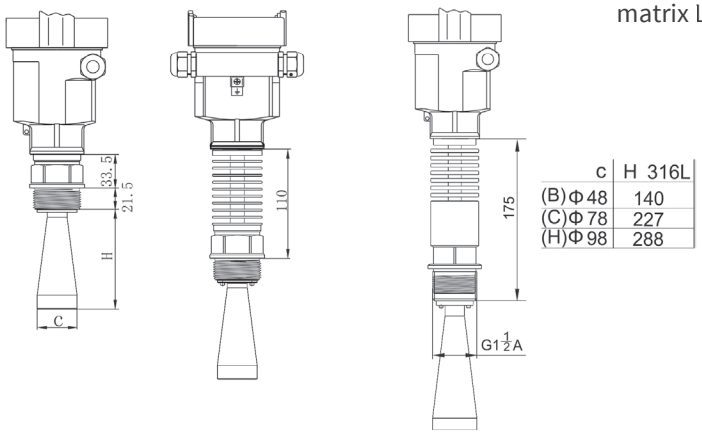
RPL56 is a radar sensor for liquids continuous measurement. Suitable for application in storage and process tanks, also in hard working conditions. Suitable for level measurement in tanks with 1 ½ “G threaded or flanged connection. The different antenna models and the wide temperature and pressure ranges make the RPL56 radar sensor the optimal solution for nearly all kind of application.

Technical Feature

Frequency
K group (26GHz)
Housing / Antenna material
aluminum; SS316L
Mechanical installation
threaded G 1½; 1”½ NPT
IP rating
IP67/IP68 (Sensor)
Electrical connection
Terminals
Working temperature
-40° ÷ +130°C / -60° ÷ +250°C / -60° ÷ +400°C +400°C

Pressure
-1 a 40 bar; 1 a 400 bar
Power supply
24Vdc; 230Vac
Certification
ATEX
Analog output
4÷20mA
Digital communication
HART

Measure range
30 mt
Accuracy
±3mm
Risolution
1mm.
Calibraton
4 buttons or via HART
Warm up
5 minuts
Display
Plug-in display/keyboard 4 buttons matrix LCD



c	H 316L
(B)Φ48	140
(C)Φ78	227
(H)Φ98	288

RPL56 Radar level transmitter

Micro-waves pulse 26GHz group K
For liquid storage or process applications
Max distance: 30m
Accuracy: ±3mm
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 (only applicable for installation with standpipe)
	C	Horn antenna Ø78mm / SS316L (only applicable for installation with standpipe)
	H	Horn antenna Ø98mm / SS316L
	J	Horn antenna Ø123mm / SS316L
	Z	Special
	Process connection / Material	
	GA	Thread 1" ½ NPT / SS316L (-40° ÷ +130°C)
	GC	Thread G 1" ½ with cooling fin / SS316L (-60 ÷ +250°C)
	GD	Thread G 1" ½ with cooling fin and flange / SS316L (-60 ÷ +400°C); pressure 40MPa
	GE	Thread G 1" ½ / SS316L with blowing in connection (-40° ÷ +130°C - inlet pressure 0÷5bar)
	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
	JC	DN150 / SS316
	KE	DN200 / SS316 + aiming device
	OO	None
	ZZ	Special
	Seal / Process temperature	
	2	Viton / -40÷130°C
	3	Kalrez / -60÷250°C
	4	Graphite / -60÷400°C
	Electronic preamplifier	
	A	None
	B	4÷20mA HART (2-wire); 24Vdc - mandatory 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 - mandatory for ATEX version
	U	Aluminum with transparent cap / IP67 / IP68
	Z	Special
	Cable entry	
	M	M20x1,5
	Keyboard/display programming module VL602	
	A	Yes
	X	No