RPL55

Radar level transmitter

Continuous level measurement without contact for liquids, pastes and slurries

Range 10 m

Process pressure 3 bar

2 /4 wires technology

Pulse Radar at 26 GHz (K-band)

ATEX

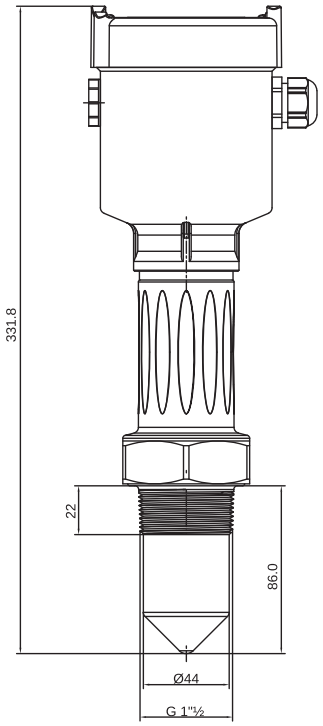
RPL55 is a radar sensor for continuous measurement on liquids, even chemically aggressive, in the presence of not particularly heavy process conditions. Suitable for level measurement in tanks with 1½ “G threaded connections. The small antenna allows the installation in calm pipes or in small tanks, moreover the availability of different measures of the antenna extension allow installation in the presence of insulation or other thicknesses to overcome.

Technical Feature

Frequency
K group (26GHz)
Housing / Antenna material
aluminum; PVDF
Mechanical installation
threaded G 1½
IP rating
IP67/IP68 (Sensor)
Electrical connection
Terminals
Working temperature
Antenna PVDF -40 ÷ +130°C

Pressure
-1 ÷ 3 bar
Power supply
24Vdc; 230Vac
Certification
ATEX
Analog output
4÷20mA
Digital communication
HART / MODBUS
Measure range
10 mt

Accuracy
±10mm
Resolution
1mm.
Calibraton
4 buttons or via HART / MODBUS
Warm up
5 minutes
Display
Plug-in display/keyboard 4 buttons matrix LCD



RPL55 Radar level transmitter

Micro-waves pulse 26GHz group K
For liquids measurement also with strong erosive products
Max distance: 10m
Accuracy: ±5mm
Process pressure: -1÷3bar

	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 / Process temperature	
	B	Mono-pole / PVDF / -40° ÷ +130°C
	Process connection / Material	
	GP	Thread G 1"½ / PVDF
	ZZ	Special
	Non sensitive part (for nozzle mounting)	
	A	100 mm
	B	200 mm
	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÷30Vdc 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