

SENSORS &
CONTROLLERSANALYZERS
& SAMPLERSLEVEL, FLOW
& PRESSUREWEB APP &
DATALOGGING

ACCESSORIES

RPL 55 DATASHEET

RADAR LEVEL TRANSMITTER



MAIN FEATURES

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 (On request)

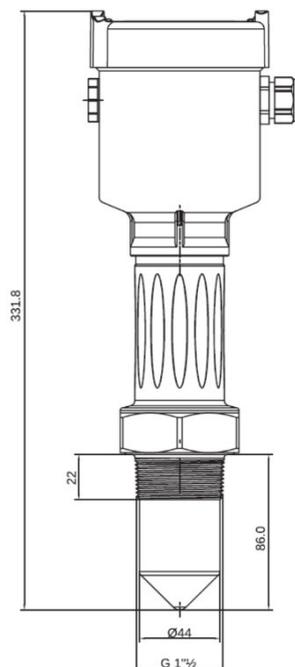
APPLICATIONS

RPL 55 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 1 1/2 "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 DATA

Measuring range	10 mt
Accuracy	±10mm
Resolution	1 mm
Frequency	K group (26GHz)
Operating temperature	Antenna PVDF -40 ÷ +130°C
Pressure	-1 ÷ 3 bar
Programming/display	Plug-in display/keyboard 4 buttons matrix LCD
Housing / Antenna material	Aluminum; PVDF
Mechanical installation	Threaded G 1½
Protection grade	IP67 / IP68 (Sensor)
Power supply	24Vdc; 230Vac
Electrical connection	Terminals
Analogue output	4÷20mA
Warm up	5 minutes
Digital communication	HART / MODBUS
Certification	ATEX (Optional)

DIMENSIONS



ORDER CODES

RPL 55	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	ATEXII IG/D Ex ia IIC T6..3 Ga/Ex ia IIIC T76°C..TI46°C Da - only with Housing G and electronic B
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 necessary 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/Housing Antenna	
D	Aluminum 2 chambers (for 4-wire versions) / IP67 / IP68
G	SS 316L / IP67/ IP68 necessary 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