RWL51

Radar level transmitter

Contact level measurements for liquids and solids

Max rod length 3 m
rope / semi-flexible pipe 30 m

Process pressure 40 bar

2/4 wires technology

Pulse microwave TDR

Display of alphanumeric level measurement and of the echo signal curve

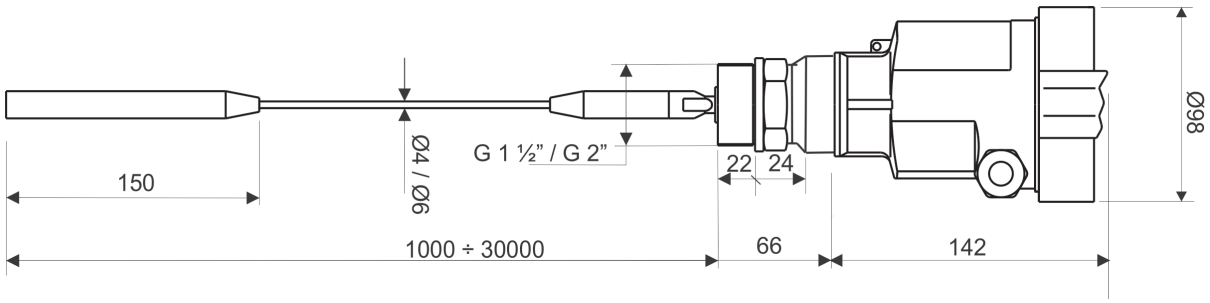
RWL51 is a guided micro-wave sensor for liquids and bulk solids materials continuous measurement. Insensitive to environmental influences like dust and steam, RWL51 provides accurate and repetitive measurement values. RWL51 constitutes the solution for multiple level measurements. Suitable for application in silos or tanks, also in hard working conditions. Suitable for level measurement in tanks with 1 ½ “G or 2”g threaded. RWL51 is available with rope or rigid rod antenna..

Technical Feature

Housing / Antenna material
aluminum / SS316L / SS304
Mechanical installation
threaded G 1½”; G 2”
IP rating
IP67
Electrical connection
Terminals
Working temperature
-30° ÷ +130°C / -40° ÷ +150°C

Pressure
-1÷40 bar
Power supply
24Vdc; 230Vac
Analog output
4÷20mA
Digital communication
HART; MODBUS
Measure range
rod 3 m; rope 30 m; semi-flexible pipe 30 m

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



RWL51 Guided microwave radar level transmitter

Microwaves pulse TDR
For liquids and bulk solids measurement
Max. length: rod 3m, rope and semi-flexible pipe 30m
Accuracy: ±10mm
Process pressure: -1÷40 bar

	Version	
	P	Standard
	Antenna shape / Material / Sealing	
	A	Rope Ø 6mm / SS316L / PTFE
	B	Rod Ø10mm / SS316L / PTFE
	C	Semi-flexible pipe Ø8mm / SS304 / PTFE
	Process connection / Material	
	GP	Thread G1 ½" / SS316L
	KP	Thread G2" A / SS316L
	NP	Thread 1 ½" NPT / SS316L
	ZZ	Special
	Seal / Process temperature	
	A	Viton / -30÷130°C
	B	Kalrez / -40÷150°C
	Electronic preamplifier	
	B	4÷20mA HART (2-wire); 24Vdc
	C	4÷20mA HART (4wire); 24Vdc
	D	4÷20mA HART (4wire); 230Vac
	R	10÷30 Vdc MODBUS RTU
	Housing / Protection	
	D	Aluminum 2 chambers (for 4-wire versions) / IP67
	G	SS316L / IP67
	U	Aluminum with transparent cap / IP67
	Z	Special
	Cable entry	
	M	M20x1,5
	Keyboard/display programming module VL602	
	A	Yes
	X	No
	L= length, price each 100mm	
	A	Rope Ø6mm / SS316L (max 30m)
	B	Rod Ø10mm / SS316L (max 3m)
	C	Semi-flexible pipe Ø8mm / SS304 (max 30m)