

RL2000



- Real Level Measurement Based On Multiple Level Readings
- Non Contact, Dust Penetrating
- Patented Self-Cleaning Technology
- Works With Any Dielectric Constant
- LCD wizard configuration

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Materials, non-wetted parts	
Housing & Antenna	Painted aluminum die casting
Inspection window in housing	Polycarbonate
Weight-RL2000	5.6 Kg (12.35 lb)
Output signal	Active 4...20mA/HART/RS485/Modbus
Ambient & Process Temperature	
Ambient, storage, transport and process temperature	-40...85°C (-40...+185°F)
Process conditions	
Vessel pressure	-0.2...3 bar (-2.9...43.5 PSI)
Electromechanical data	
Cable entry/plug	1 x M20x1.5 (cable-Ø 8...12mm), 1 x blind stopper M20x1.5
	Or 2 x cable entry ½" NPT
Display panel	
LCD	4 lines x 20 characters
Adjustment elements	4 keys
Power supply – 4-wire instrument (Active) 4...20 mA / HART	
Supply voltage	18...32 VDC
Power consumption	max 1.5 W @ 24VDC
Electrical protective measures	
Protection	IP67 according to IEC 60529
CE	
EMC- Emission	EN 61326:1997 (class B)
EMC- Susceptibility	IEC / EN 61326:1997 + A1:1998 + A2:2001 + A3:2003
NSR (73/23/EWG)	EN 61010-1:2001
FCC	
Conformity	to part 15 of the FCC regulations
	FCC 47 CFR part 15:2007, subpart B, class A
Measurement characteristics	
Beam angle	15 degrees
Frequency	4.5 KHz
Reaction / Settling time	<5 s (dependent on the parameter adjustment)

Type

RL2000 For solid applications

Approvals

XX – Without

- DX**
- ATEX II 1/2D, 2D, Ex ibD/iaD 20/21 T110°C
 - ATEX II 2G Ex ia/ib IIB T4
 - FM / cFMus Intrinsically Safe CL I,II, DIV I, GP CDEFG
 - NEPSI II 2G Ex ia/ib IIB T4
 - NEPSI II 1/2D Ex ibD/iaD 20/21 T110°C

Material / Finish

B With horn antenna @195mm/ALU

Process connection

GD Thread 1.93" - 8 UN

Electronics

V 4 ...20mA/HART – 4-wire/RS485/Modbus

Cable entry

M M20x1.5 / 1/2" NPT

Temperature

X Standard Version Suitable For 85°C (185°F)



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