PAQUIN SENSORS

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Ultrasonic Level Sensor

- Flexible installation via upper or lower thread connection (G1", G1½", G2¼")
- HART®-enabled 4–20 mA output for remote configuration and integration
- IP68-rated housing with all-plastic PP and PVDF design for corrosion resistance
- Ranges from 0.15 to 10 meters
- Advanced echo signal filtering to eliminate false reflections from challenging surfaces





About

The P102 is a compact ultrasonic level meter designed for continuous, noncontact level measurement in outdoor and industrial environments. With measurement ranges from 0.15 m to 10 m, it is ideal for monitoring liquids, slurries, pastes, and even some bulk solids in open tanks or troughs. The unit offers flexible installation options via upper or lower threaded connections and communicates using a 4-20 mA signal with HART® protocol support. Its rugged IP68-rated housing and advanced signal processing enable reliable performance even in challenging media conditions like foam or uneven surfaces.

Applications

- √ Food & Beverage
- Chemical Refining & Manufacturing
- Pharmaceuticals
- Water Treatment & Wastewater
- Agriculture
- Clean water
- ✓ Mining Pastes & Slurries
- Environmental Monitoring

Level Sensor P102



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Build Your Part Number

Series P102

Example: P102M3CC20A1A4

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26	ш	e:	9

P102

Hazard Performance - select one

S Standard Atmosphere (Non-explosive)

Maximum Measuring Range & Process Connection - select one; refer to diagrams on page 3

M1	0.15 2 meter	/ G 1" upper or	lower threads
MI	1 0.15 Z meter	/ G i upper or	iower unread

M2 0.25 ... 6 meters / G $1 \frac{1}{2}$ " screwing thread and G 1" upper thread

M3 0.40 ... 10 meters / G 2 $\frac{1}{4}$ " screwing thread and G 1" upper thread

Output - select one

c 4 ... 20 mA with HART

Electrical Connection - select one

S	Standard	plastic	cable	aland

H Plastic cable gland with cable protection

C Pre-installed cable (must inform cable length)

Cable Length - please inform in meters (only when option C above is selected, otherwise leave blank)

Cable length in meters (Example: 15 = 15 meters)

Accessories - optional; will be quoted as a separate line item

A	1	Telescopic bracket	
A	2	Quantity 2 O-ring seals	0
A:	3	Universal USB to HART converter (See P117 product)	
A	4	Horn adapter (G1", G1 ½", G 2 ¼")	
A!	5	Lock nuts (G1", G1 ½", G 2 ¼")	
A	6	Stainless Steel Weld flanges (G1", G1 ½")	
A'	7	Carbon Steel Weld flanges (G1", G1 ½")	

Ordering Example: P102SM3CS10A1

P102 Ultrasonic level meter

S Standard Atmosphere (Non-explosive)

M3 0.40 ... 10 meters / G 2 1/4" screwing thread and G 1" upper thread

Protecting Hose (Only for Electrical Connection H)

C Current output (4 ... 20 mA)

S Standard plastic cable gland10 Cable length in meters

Ordering Example: P102SM1CH35A1A1A2

P102 Ultrasonic level meter

S Standard Atmosphere (Non-explosive)

M1 0.15 ... 2 meter / G 1" upper or lower threads

c Current output (4 ... 20 mA)

H Plastic cable gland for protective hose

35 Cable length in meters

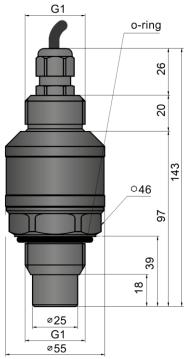
8A

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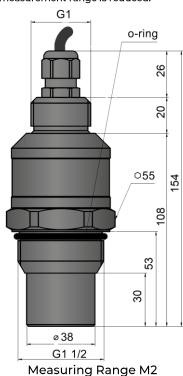
Technical Parameters

Technical Paran				
Electrical	Supply Voltage	18 36 VDC	18 36 VDC	
	Output	4 20 mA, HART		
Measuring	Measuring Range ¹⁾	Measuring Range M1	0.15 2 meter	
		Measuring Range M2	0.25 6 meters	
		Measuring Range M3	0.40 10 meters	
	Accuracy (within total range)	0.15%		
	Temperature Error	Maximum 0.04% / K		
Environmental	al Ambient Temperature Range	Measuring Range M1	-22°F 158°F (-30°C +70°C)	
		Measuring Range M2	-22°F 158°F (-30°C +70°C)	
		Measuring Range M3	-22°F 140°F (-30°C +60°C)	
	Maximum Operation Overpressure (On transmission surface)	14.5 PSI		
	Protection Class	IP68		
Mechanical	Mechanical Connection	Measuring Range M1	G 1" upper or lower threads	
		Measuring Range M2	G 1 ½" screwing thread and G 1" upper thread	
		Measuring Range M3	G 2 1/4" screwing thread and G 1" upper thread	
	Recommended Cable	PVC 2 x 0.75 mm ²		
	Housing Material	All plastic PP design with PVDF transmitter		

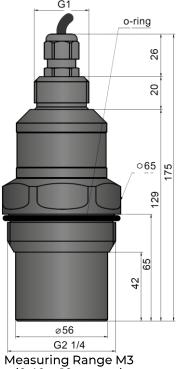
In case the level of bulk-solid materials is measured, the measurement range is reduced.



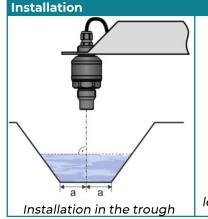
Measuring Range M1 (0.15 ... 2 meters)

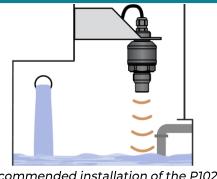


(0.25 ... 6 meters)

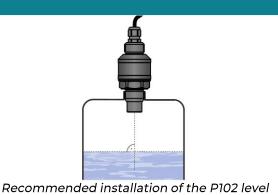


(0.40 ... 10 meters)





Recommended installation of the P102 level meter in the tank via the upper thread



meter in the tank using the bottom thread

Additional Images

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Paquin Sensors' product portfolio is designed to provide options to fit the most diverse range of specifications.

We collaborate with our customers to match the best product technologies with your unique application requirements.

Please contact us or call +1 (800) 831-8217 anytime to discuss your needs!