

VUM200 Ultrasonic Level Meter

- ▶ 2-wire 4...20mA/3-wire 0...10V output
- ▶ Liquid level / distance measuring mode programmable
- ▶ Applicable to liquid and solids
- ▶ Narrow-beam
- ▶ Optional intrinsically safe model

VUM200 contains an ultrasonic transmitter and an electronic module, the transmitter transmits ultrasonic pulses towards the level surface. The period during individual pulses spread towards the level and back was obtained and subsequently converted by the electronic module to an output current 4-20 mA or voltage 0-1 0V. Measuring range can be set through two keys.



LEVEL

Specifications

Measuring Range	0.1...1m/0.25...2m/ 0.25...6m/0. 5...10m/0.5...20m
Applicable Medium	Liquid
Acoustic wave	For details please see 'Technical Data'
Accuracy	
UM2000-06/10/20	≤0.2% F.S.
UM2000-01/02	≤0.3% F.S.
Resolution	<1 mm
Power Supply	18...36Vdc,18...30Vdc(ex-proof model)
Current Analog Output	
Output	2-wire 4...20mA
Load RA	RA≤270Ω
Voltage Analog Output	
Output	3-wire 0...10V
Load RA	RA>1KΩ
Temperature	
UM2000-02/06	-30...+70℃
UM2000-10/20	-30...+60℃
Material	
Housing	Plastic
Sensor	PVDF
Protection Class	IP67
Electrical Connection	Solenoid plug
Process Connection	G External thread, Flange

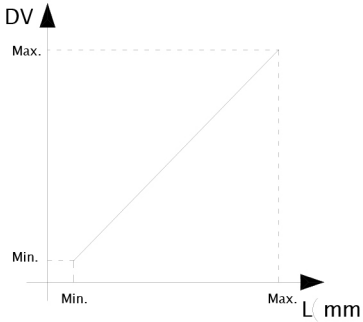
Applications

- ▶ Food/pharmaceutical industry
- ▶ Power plant
- ▶ Plastics processing
- ▶ Papermaking
- ▶ Water treatment

Flow Range Technical Data

Measuring Range(m)	0.25-2 (UM2000-02)	0.25-6 (UM2000-06)	0.5-10 (UM2000-10)	0.5-20 (UM2000-20)
Acoustic wave	10°	14°	10°	12°
Measuring Period(s)	0.6s	1.0s	1.8s	5.0s

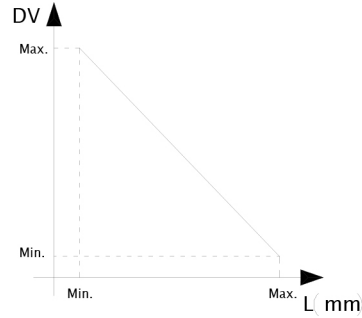
Working Mode



L: distance from sensor to objective surface
DV: display value

Distance measuring mode :

The further distance between sensor and objective surface, the larger value displayed, and vice versa.

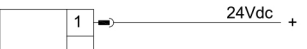


L: distance from sensor to objective surface
DV: display value

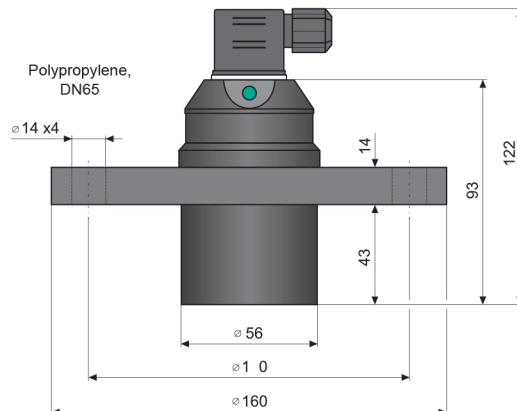
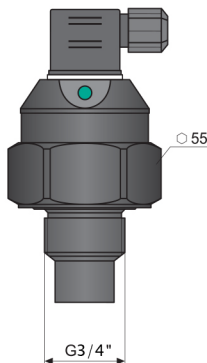
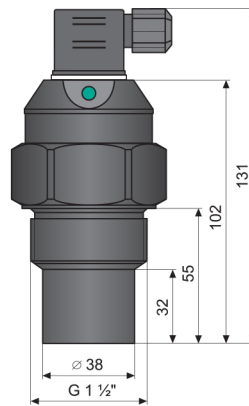
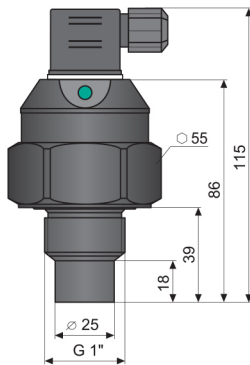
Level measuring mode :

The further distance between sensor and objective surface, the larger value displayed, and vice versa.

Wiring

Wiring	2-wire 4...20mA Output	3-wire 0...10V Output								
 Solenoid plug <table><tr><th>Signal</th><th>Plug</th></tr><tr><td>U+</td><td>1</td></tr><tr><td>U-</td><td>2</td></tr><tr><td>(Signal)</td><td>3</td></tr></table>	Signal	Plug	U+	1	U-	2	(Signal)	3		
Signal	Plug									
U+	1									
U-	2									
(Signal)	3									

Dimensions in inches (mm)



Model Number

OrderNO.	Type	Range m	Process Connection	Output type mA/V
VUM2001	VUM200 -01/42G34HN	0.1...1	G3/4	Current Analog Output 2-wire 4...20mA
VUM2002	VUM200 -02/42G1HN	0.25...2	G1	
VUM2006	VUM200 -06/42G2HN	0.25...6	G1-1/2	
VUM2010	VUM200 -10/42G2HN	0.5...10	G1-1/2	
VUM2020	VUM200 -20/42FHN	0.5...20	Flange	
VUM2101	VUM200 -01/01G34HN	0.1...1	G3/4	Voltage Analog Output 3-wire 0...10V
VUM2102	VUM200 -02/01G1HN	0.25...2	G1	
VUM2106	VUM200 -06/01G2HN	0.25...6	G1-1/2	
VUM2110	VUM200 -10/01G2HN	0.5...10	G1-1/2	
VUM2120	VUM200 -20/01FHN	0.5...20	Flange	
VUM2201	VUM200 -01/__G34HN	0.1...1	G3/4	RS485 Mod bus
VUM2202	VUM200 -02/__G1HN	0.25...2	G1	
VUM2206	VUM200 -06/__G2HN	0.25...6	G1-1/2	
VUM2210	VUM200 -10/__G2HN	0.5...10	G1-1/2	
VUM2220	VUM200 -20/__FHN	0.5...20	Flange	