

VTL200 Float Level Transmitter

- ▶ Economical liquid level transmitter
- ▶ No impact on measuring from container inner pressure
- ▶ Multiple outputs selectable
- ▶ Easy to use, applicable to various medium
- ▶ Stainless steel wetted parts
- ▶ Measuring range up to 2m

The principle of VTL200 is that under the action of liquid buoyancy, the floating ball with magnetic steel moves up and down along the guide rod, and the magnetic switch in the guide rod is continuously triggered. The magnetic switch controls the number of resistance on or off, and the liquid level change is converted into resistance change. The resistance value is converted into standard electrical signal output and displayed after processing by the back circuit.

The all-metal housing design enables the series to be used in a variety of industrial applications. A variety of connection methods can fully meet a variety of specific installation requirements.

Specifications

Measuring Range	250mm/ 500mm/ 750mm
(Rod length)	1000mm/1500mm/2000mm
Applicable Medium	Corrosive liquids compatible with 304(316/PTFE) stainless steel
Resolution	For details please see 'technical data
Pressure Rating	20bar
Medium Density	$\geq 0.7\text{g/cm}^3$
Power Supply	10...36Vdc
Current Consumption	
2-wire	Same as current output (4...20mA)
3-wire	$\leq 22\text{mA}$
2-wire Current Analog Output	
Output	2-wire 4...20mA
Load RA (Ω)	$R_A (U_s-10)\text{V}/0.02\text{A}$
Linearity	$\leq \pm 1.5\%$ of F.S.
3-wire Voltage Analog Output	
Output	3-wire 0...5V
Load RA (Ω)	$R_A \geq 5$
Linearity	$\leq \pm 1.5\%$ of F.S.
Wiring Protection	Reverse polarity
Temperature	
Medium	-40...85°C
Ambient	-40...85°C
Storage	-40...85°C
Material	
Housing	304 stainless steel
Process Connection	304 stainless steel
Float and Rod	304 stainless steel
Protection Class	IP67
Electrical Connection	M12×1 plug
Process Connection	G2 external thread



LEVEL

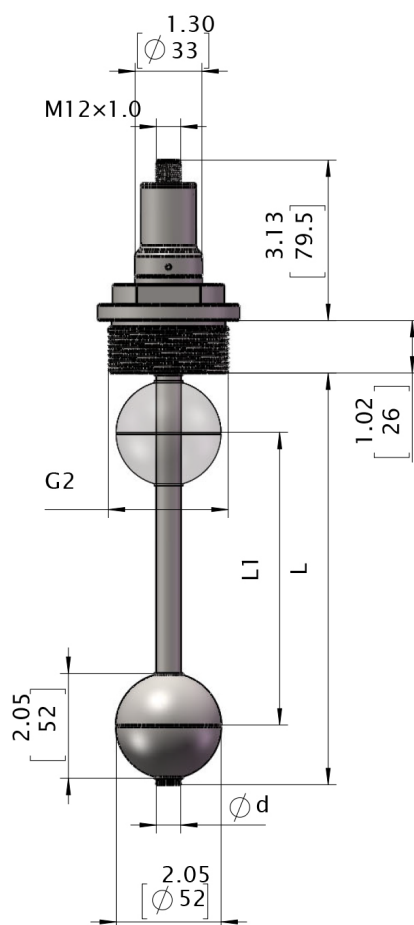
Applications

- ▶ Food/pharmaceutical industry
- ▶ Power plant
- ▶ Petrochemical
- ▶ Water treatment
- ▶ Boiler
- ▶ Papermaking

Wiring

Wiring	2-wire	3-wire												
<table border="1"> <thead> <tr> <th>Signal</th><th>Plug</th><th>Cable</th></tr> </thead> <tbody> <tr> <td>U+</td><td>1</td><td>Brown</td></tr> <tr> <td>(Signal)</td><td>2</td><td>White</td></tr> <tr> <td>U-</td><td>3</td><td>Blue</td></tr> </tbody> </table> M12 plug	Signal	Plug	Cable	U+	1	Brown	(Signal)	2	White	U-	3	Blue		
Signal	Plug	Cable												
U+	1	Brown												
(Signal)	2	White												
U-	3	Blue												

Dimensions in inches (mm)



LEVEL

Model Number

OrderNO.	Type	Rod Length mm	Effective Length mm	Resolution mm	Output type mA/V
VTL0025	VTL200/24GSM250C	250mm	190	8	Current analog output 2-wire 4...20mA
VTL0050	VTL200/24GSM500C	500mm	440	8	
VTL0075	VTL200 /24GSM750C	750mm	690	8	
VTL0100	VTL200/24GSM1000C	1000mm	940	15	
VTL0150	VTL200/24GSM1500C	1500mm	1440	15	
VTL0200	VTL200/24GSM2000C	2000mm	1940	15	
VTL1025	VTL200/30GSM250C	250mm	190	8	Voltage analog output 3-wire 0...5V
VTL1050	VTL200/30GSM500C	500mm	440	8	
VTL1075	VTL200/30GSM750C	750mm	690	8	
VTL1100	VTL200/30GSM1000C	1000mm	940	15	
VTL1150	VTL200/30GSM1500C	1500mm	1440	15	
VTL1200	VTL200/30GSM2000C	2000mm	1940	15	