

Liquid heroes

SITRANS LVL100 and LVL200 for liquid level applications



SITRANS LVL100/LVL200

Answers for industry.





Liquid level heroes

SITRANS LVL100 and LVL200 are vibrating liquid level switches for high, low, and demand level alarms and pump protection for liquid applications. These compact switches are reliable, easy-to-use, and are unaffected by changing conditions such as conductivity, dielectric, vapours, or bubbles.

They can be connected to most process, alarm, and control systems used in storage and processing applications.

These switches are insensitive to external vibrations and are exceptionally durable. They are easy to set up and feature a uniquely threaded piezo drive that increases reliability and performance in high temperature applications.

SITRANS LVL100 and LVL200 both have a failsafe function that alerts the user if the electronics detect damage or corrosion to the instrument.

SITRANS LVL100

- Low maintenance
 Ideal for confined space applications a pipelines down to DN25
- Hygienic process connections
- High pressure up to 64 bar g (928 psi g)
- High process temperature up to 150 °C (302°F)
- Advanced fault monitoring
- Function test outside enclosure

SITRANS LVL200

- SIL 2 qualified for high level and dry run applications
- Hygienic process connections
- High pressure to 64 bar g (928 psi g)
- High process temperature up to 250 °C (482°F)
- Advanced fault monitoring

	SITRANS LVL100	SITRANS LVL200
Power		
	 10 to 55 V DC (Transistor PNP) 20 to 253 V AC, 50/60 Hz; 20 to 253 V DC (Contactless) 	20 to 253 V AC, 50/60 Hz; 20 to 72 V DC(Relay DPDT)
Performance		
Minimum material density	 Density 0.7 to 2.5 g/cm³ (0.025 to 0.09 lbs/in³) Viscosity: 0.1 to 10,000 mPa s 	 Density 0.5 to 2.5 g/cm³ (0.018 to 0.09 lb/in³) Viscosity: 0.1 to 10,000 mPa s High and low sensitivity switch sets density value from 0.5 to 0.7 g/cm³
Accuracy	 Hysteresis approx. 2 mm (0.08") with vertical installation Frequency 1200 Hz 	 Hysteresis approx. 2 mm (0.08") with vertical installation Frequency 1200 Hz
Interface		
Alarm output	Signal LED, Contactless electronic switch, Transistor PNP	Relay output (DPDT)
Switching Delay	Approx. 500 ms	Approx. 500 ms
Mechanical		
Enclosure	Housing: 316L and plastic PEI	Aluminum die-cast powder coated
Process connections*	 Threaded: G ³/₄" A PN64, G 1" A PN64, ³/₄" NPT, 1" NPT Hygienic: Tri-clamp 1", 1¹/₂", 2" Bolting: DN25 PN40, DN40 PN40, SMS 	 Threaded: G ¾" A, G 1" A, G 1½" A, ¾" NPT, 1" NPT, 1½" NPT Hygienic: Tri-clamp 1", 1½", 2", 2½", 3" Flanged: Conus DN25, DN40 PN40, SMS, Tuchenhagen Varivent DN50 PN10
Sensor	• Tuning fork: 316L • Process seal Klingersil C-4400 • Process connection 316L	 Tuning fork: 316L, Hastelloy[®] C4 (2.4610) Process connection: 316L, 316L with Hastelloy C4 plated, 316L with ECTFE coated, 316L with PFA coated
Process conditions		
Pressure rating (vessel)	-1 to 64 bar g (-14.5 to 928 psi g)	-1 to 64 bar g (-14.5 to 928 psi g) dependent on process connec- tion, e.g. flange
Temperature rating	 Standard: -40 to 100 °C (-40 to 212 °F) High temperature: -40 to 150 °C (-40 to 302 °F) 	-50 to 250 °C (-58 to 482 °F)
Approvals		
	CE, Shipping approvals, Overfill protection (WHG)	CE, FM, SIL 2, FDA, 3A, Shipping approvals, EHEDGE, Overfill pro-

* Other process connections available; please check configuration sheet.

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tection (WHG)