Hazardous Area Transmitter for Low Pressure Applications Vapor Recovery, SWD Systems, and Tank Vent Monitoring Type IS-20-VR

Applications

- Vapor recovery control systems
- Salt water disposal control systems
- Tank vent pressure monitoring systems
- Liquid level monitoring in shallow tanks

Special Features

Description

and monitoring systems.

Division 1 locations.

- Pressure ranges down to 0-12 oz/in² with ≤0.25% accuracy
- Low maintenance, non-clogging large diameter pressure port
- NACE MR-01-75 compliant for resistance to sulfide stress cracking
- FM and CSA approved for installation Class I, Division 1 hazardous areas

As environmental regulations to reduce fugitive emissions

monitoring of low pressures is increasing in importance.

Vapor recovery systems, salt water disposal systems, and storage tank pressure monitoring require accurate, consistent pressure measurement for optimal performance of the control

The WIKA IS-20-VR low pressure transmitter is designed for use in hazardous area applications requiring extremely low pressure ranges measured in ounces per square inch.

The IS-20-VR features an industry standard 4-20 mA output

and FM intrinsically safe approvals for installation in class I

become more stringent and complex, accurate and reliable

Engineered to meet the harsh demands of upstream vapor recovery, SWD, and tank vent monitoring systems

WIKA Datasheet IS-20-VR VIKA Transmitter FM PPROVED

IS-20-VR pressure transmitter

The IS-20-VR can also be used for liquid level monitoring down to 0-20 inches water column (0-12 oz/in2) and is sensitive enough to detect level changes as small as +/-0.05 inches.

The ½ NPT male process connection features a large pressure port for improved resistance against obstruction by particulates, scale, or media buildup.





Specifications		Model IS-20-VR
Pressure Range	Maximum	Burst
0 12 oz/in ²		
- 4 0 12 oz/in²	240 oz/in ² (15 psi)	320 oz/in² (20 psi)
0 16 oz/in ²		
FM, CSA Approvals		FM standards according to FMRC 3600, 3610, 3611 (including supplement #1),
		ISA-S12.0.01, IEC 60 529 (including amendment #1)
		CSA standard C22.2 No. 0-M1991 / 142-M1987 / 157-M1992
		UL 50, Eleventh Edition / UL 508, Seventeenth Edition / UL 913, Sixth Edition
HF-immunity	V/m	10
Burst	KV	2
Accuracy ¹⁾	% of span	≤ 0.25 (BFSL)
	% of span	≤ 0.5 (limit point calibration)
Non-repeatability	% of span	≤ 0.05
1-year stability	% of span	≤ 0.2
Compensated temperature range		32 +176°F (0 +80°C)
TC within compensated range	% of span	≤ 0.8 / 10K
Zero and span		Non-adjustable
Wiring protection		Protected against reverse polarity and short circuit
Ignition protection type	FM, CSA	Class I, II and III
		Intrinsically safe Class I, II, III Division 1,
		Groups A, B, C, D, E, F, G and Class I, Zone 0 AEx ia II C

Wiring

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1.) Including linearity, hysteresis and repeatability. Limit point Calibration performed in vertical mounting position with pressure connection facing down. Transmitter should be mounted in vertical position with pressure connection facing down for best performance.

Note: additional specifications are available on data sheet IS-20. Options listed on the IS-20 data sheet are not available on the IS-20-VR version.



IS-20-VR installed on salt water disposal system tank

Specifications and dimensions given in this datasheet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

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0.75 [19]

0.75 19

HEX 1.06

Dimensions

inches (mm)

ee



1/2NPT

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