

JUMO GmbH & Co. KGMoritz-Juchheim-Straße 1
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**MORE THAN SENSORS
AND AUTOMATION**

Certificate

Railway application According to EN 50155:2021

Manufacturer Address **JUMO GmbH & Co. KG**
Moritz-Juchheim-Straße 1, 36039 Fulda, Germany

Product description **Pressure transmitter**
Model and/or type 401011 ¹⁾ + extra code 950 railway application

Classification

Nominal voltage:	DC 24 V	Fast temperature change class:	H1
Power supply interruption class:	S1	PCB coating class:	PC1
Power supply switching class:	C1	Mechanical category/class:	1/B
Operation temperature class:	---	Lifespan:	L1
Switching temperature class:	ST0	Altitude class:	A1

Tests performed

	Test and requirements	Standard	Result
1	Visual inspection	EN 50155:2021	Passed
2	Performance Test	EN 50155:2021	Passed
3	DC power supply test $0.6 \cdot U_{Nenn}$ $1.4 \cdot U_{Nenn}$	EN 50155:2021 EN 61000-4-29:2000	Passed
4	Low temperature test	Test on inquiry	---
5	Dry heat test	Test on inquiry	---
6	Low temperature storage test	Test on inquiry	---
7	Insulation test DC 500 V, $R > 20 M\Omega$ AC 500 V, 1 min Additionally increased limits: AC 1250 V, 1 min	EN 50155:2021	Passed
8	Cyclic damp heat test $+25/+55\text{ }^{\circ}\text{C}$, 93 % r.h., 2x24h	EN 50155:2021 EN 60068-2-30:2005	Passed
9	Electromagnetic compatibility test (EMC)	EN 50121-3-2:2016	Passed
	EMC: Emission	EN 50121-3-2:2016 EN 61000-6-4:2007 + A1:2011	Passed
	EMC: Immunity ESD $\pm 6\text{ kV Contact}$; $\pm 8\text{ kV Air}$	EN 50121-3-2:2016 EN 61000-4-2:2009	Passed

1) Output 4...20mA only

2) For electrical connection DIN EN 175301-803 Form A

3) For electrical connection M12x1

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9	EMC: Immunity RF-Field 80-1000 MHz, 20 V/m, 1400-2000 MHz, 10 V/m 2000-2700 MHz, 5 V/m 5100-6000 MHz, 3 V/m	EN 50121-3-2:2016 EN 61000-4-3:2006 + A1:2008 + A2:2010	Passed
	EMC: Immunity Burst ±2 kV, 5 kHz	EN 50121-3-2:2016 EN 61000-4-4:2012	Passed
	EMC: Immunity Surge ±1 kV Line-Earth	EN 61000-4-5:2014	Passed
	EMC: Immunity Conducted-RF 0.15-80 MHz, 10 V	EN 50121-3-2:2016 EN 61000-4-6:2014	Passed
10	Shock and vibration test	EN 61373:2010	Passed
	Broadband random noise 5-150 Hz, 1.01 m/s ² , ASD 0.03 (m/s ²)/Hz, 10 min	EN 61373:2010 EN 60068-2-64:2008	Passed
	Simulated Lifetime 5-150 Hz, 5.72 m/s ² , ASD 0.964 (m/s ²)/Hz, 5 h	EN 61373:2010 EN 60068-2-64:2008	Passed
	Shock ±50 m/s ² , 24 ms, 3 Shocks	EN 61373:2010 EN 60068-2-27:2009	Passed
11	Enclosure protection test (IP-Code) IP65 ¹⁾ , IP66 ²⁾	EN 60529:1991 + A2:2013/AC:2019	Passed
12	Stress screening test	Test on inquiry	---
13	Rapid temperature variation test	Test on inquiry	---
14	Salt mist test	Test on inquiry	---
15	Fire behaviour of materials	Test on inquiry	---
16	Accelerated aging test 0/16 bar, 1.000.000 pressure cycles, 8 Hz	---	Passed

Test laboratories used:	for test no.:
Internal laboratory JUMO	1, 2, 11-16
Internal accredited laboratory JUMO (IEC 17025)	3-10
External accredited laboratory (IEC 17025)	---

JUMO GmbH & Co. KG, Moritz-Juchheim-Strasse 1, 36039 Fulda, Germany	
Date	Signature
Fulda, May 20, 2026	Signiert von: B4F6DC77AEAA4F...
	Signiert von: 8C03B1EB815A48B...
	o.b.o. Dr.-Ing Jan-Florian Höfinghoff Test laboratory o.b.o. Matthias Halsch Product management

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