

JUMO GmbH & Co. KGMoritz-Juchheim-Straße 1
36039 Fulda, GermanyTel.: +49 661 6003-0
E-Mail: mail@jumo.net

Internet: www.jumo.net

**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 Model and/or type	Pressure transmitter 402072 ¹⁾ + extra code 950 railway application

Classification			
Nominal voltage:	DC 24 V	Fast temperature change class:	H2
Power supply interruption class:	S1	PCB coating class:	PC1
Power supply switching class:	C1	Mechanical category/class:	1/B
Operation temperature class:	OT6	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 -40 °C, 2 h	EN 50155:2021 EN 60068-2-1:2007	Passed
5	Dry heat test +85 °C, 8 h	EN 50155:2021 EN 60068-2-2:2007	Passed
6	Low temperature storage test -40 °C, 16 h	EN 50155:2021 EN 60068-2-1:2007	Passed
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 °C, 93 % r.h., 2x24 h	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 ± 6 kV Contact; ± 8 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 ²⁾ , IP66/67 ³⁾	EN 60529:1991 + A2:2013/AC:2019	Passed
12	Stress screening test	Test on inquiry	---
13	Rapid temperature variation test -25/+15 °C, 95 % r.h., 6x12 h +10/+40 °C, 60 % r.h., 6x12 h	EN 50155:2021 EN 60068-2-14:2025	Passed
14	Salt mist test +35 °C, 48 h	EN 50155:2021 EN 60068-2-11:2021	Passed
15	Fire behaviour of materials HL1 to HL3, burning mass ≤ 100 g / ≤ 400 g	EN 45545-1:2013 EN 45545-2:2020	Passed

Test laboratories used:	for test no.:
Internal laboratory JUMO	1,2,11,15
Internal accredited laboratory JUMO (IEC 17025)	3,7,9
External accredited laboratory (IEC 17025)	4-6,8,10,13,14

JUMO GmbH & Co. KG, Moritz-Juchheim-Strasse 1, 36039 Fulda, Germany	
Date	Signature
Fulda, May 29, 2026	Signiert von: B4F6DC77AEAA44F... Signiert von: 8C03B1EB815A48B...
	o.b.o. Dr.-Ing Jan-Florian Höfinghoff Test laboratory o.b.o. Matthias Halsch Product management

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