

**JUMO GmbH & Co. KG**


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**MORE THAN SENSORS  
AND AUTOMATION**

	<h1>Certificate</h1>
<h2>Railway application According to EN 50155:2021</h2>	
<b>Manufacturer Address</b>	<b>JUMO GmbH &amp; Co. KG</b> Moritz-Juchheim-Straße 1, 36039 Fulda, Germany
<b>Product description Model and/or type</b>	<b>Pressure transmitter</b> 401011 <sup>1)</sup> + extra code 950 railway application

Classification			
<b>Nominal voltage:</b>	DC 24 V	<b>Fast temperature change class:</b>	H1
<b>Power supply interruption class:</b>	---	<b>PCB coating class:</b>	PC1
<b>Power supply switching class:</b>	---	<b>Mechanical category/class:</b>	1/B
<b>Operation temperature class:</b>	---	<b>Lifespan:</b>	L1
<b>Switching temperature class:</b>	ST0	<b>Altitude class:</b>	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	Not applicable	---
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 <i>DC 500 V, R&gt;20MΩ AC 500 V, 1 min</i>	EN 50155:2021	Passed
8	Cyclic damp heat test <i>+25/+55 °C, 93 % r.h., 2x24h</i>	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 <i>±6 kV Contact; ±8 kV Air</i>	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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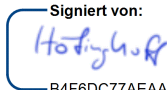
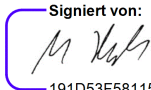
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#	Test and requirements	Standard	Result
	EMC: Immunity RF-Field 80-1000 MHz, 20 V/m, 1400-2000 MHz, 10 V/m 2000-2700 MHz, 5 V/m 5100-6000 MHz, 3 V/m	EN 50121-3-2:2016 EN 61000-4-3:2006+A1:2008+A2:2010	Passed
	EMC: Immunity Burst ±2 kV, 5 kHz	EN 50121-3-2:2016 EN 61000-4-4:2012	Passed
	EMC: Immunity Surge ±1 kV Line-Line ±2 kV Line-Earth	EN 50121-3-2:2016 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 <sup>2</sup> , ASD 0.03 (m/s <sup>2</sup> )/Hz, 10 min	EN 61373:2010 EN 60068-2-64:2008	Passed
	Simulated Lifetime 5-150 Hz, 5.72 m/s <sup>2</sup> , ASD 0.964 (m/s <sup>2</sup> )/Hz, 5 h	EN 61373:2010 EN 60068-2-64:2008	Passed
	Shock ±50 m/s <sup>2</sup> , 24 ms, 3 Shocks	EN 61373:2010 EN 60068-2-27:2009	Passed
11	Enclosure protection test (IP-Code) IP65 <sup>1)</sup> , IP66 <sup>2)</sup>	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 5, 2025	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Signiert von:</p>  <p>o.b.o. Dr.-Ing Jan-Florian Höfinghoff Test laboratory</p> <p><small>B4F6DC77AEAA44F...</small></p> </div> <div style="text-align: center;"> <p>Signiert von:</p>  <p>o.b.o. Matthias Halsch Product management</p> <p><small>191D53F581154F0...</small></p> </div> </div>

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