

## Test Data

Applicant : Avery Insturmnt Limited

Address : Rm8, 23/F., Laurels Industrial Centre, 32 Tai Yai Street, San Po Kong, KIN., HK

Sample Description : Pressure sensor

Product : Pressure sensor

Brand Name/Trade Name : Avery Insturmnt Limited

Model No. : AV901

Technical Rating : 0 to 10psi, Gauge Nose, Cone, 316L-SS,4-20mA, Connection, 10meter sunmersible

Manufacturer : Avery Insturmnt Limited

No. of Samples : 2

Date of receipt of test item : 2019/10/30

Date (s) of performance of test : 2019/11/04 - 2019/11/07

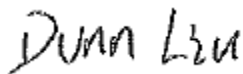
Date of issue : 2019/11/07

Service Requested : IP68 test [IEC 60529:1989+A1:1999+A2:2013]

Method : Refer to clause 13.4,14.2.8 of IEC 60529:1989+A1:1999+A2:2013


Conclusion : **Positive**

Prepared and checked by:  
Eurofins Electrical Testing Service (Shenzhen) Co.,  
Ltd.



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Project Engineer  
E&E PS

Reviewed by  
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Amo Liu  
Project supervisor  
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- The results reported in this test report shall refer only to the sample actually checked and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- This report shall not be reported except in full without prior authorization from Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.
- The services are provided subject to the terms and condition of the company, which can be furnished upon request.

## Test Data

<b>IP6X Test condition</b>	
1.	The test wire of 1.0mm $\Phi$ shall not penetrate and adequate clearance shall be kept.
2.	The test is made using a dust chamber, the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50 $\mu\text{m}$ and the nominal width of a gap between wires 75 $\mu\text{m}$ . The amount of talcum powder to be used is 2 Kg per cubic meter of the test chamber volume. It shall not have used for more than 20 tests.
3.	If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h.
4.	If, with a maximum depression of 2 kPa(20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.

<b>Acceptance condition</b>	
In general, if any water has entered, it shall not:	
1.	The protection is satisfactory if adequate clearance is kept between the access probe and hazardous parts.
2.	The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

<b>Test result</b>			
Sample No.	Test time	Observations	Verdict
191029-173-001	8h	The test wire did not penetrate the specimens, and adequate clearance was kept.  After test, no deposit of talcum powder entered into the enclosure.	Pass

## Test Data

<b>IPX8 Test condition</b>	
1.	The samples were placed in the test tank, the samples was submerged underwater.
2.	Water pressure around the sample:1 bar(Equivalent to100 Kpa, water depth approximately 10m, $g=9.8m/s^2$ ).
3.	The duration of the test is 72 h.
	The water temperature does not differ from that of the equipment by more than 5K.

<b>Acceptance condition</b>	
In general, if any water has entered, it shall not:	
1.	Be sufficient to interfere with the correct operation of the equipment or impair safety.
2.	Deposit on insulation parts where it could lead to tracking along the creepage distances.
3.	Reach live parts or windings not designed to operate when wet.
4.	Accumulate near the cable end or enter the cable if any.

<b>Test result</b>			
Sample No.	Test time	Observations	Verdict
191029-173-002	72h	After the test, there was no water entered into the enclosure.	Pass

### Appendix 1: Product Photo

Photo 1

Description: Overview – before test



Photo 2

Description: Overview – before test



Photo 3

Description: During IP6X test ( using test wire of 1.0mmΦ)



Photo 4

Description: During IP6X test ( using test wire of 1.0mmΦ)





Photo 5

Description: During IP6X test



Photo 6

Description: After IP6X test



Photo 7

Description: During IPX8 test



Photo 8

Description: During IPX8 test



Photo 9

Description: After IPX8 test



\*\*\*\*\*End of Test Report \*\*\*\*\*