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IP TEST REPORT

Project No.: *L15-20056-T1*

Equipment Under Test: Smart Water Flow Meter

Model/Type

Easy Mag Smart 800-ELC

S/N

S59509211114

Rating

220 V

IP

68 (X8: 1m: 1h)

Manufactured by: IFA SANAT GHARB Co.

Applicant: Pasargad Water and Energy Equipment Engineering Co

Tested According to: IEC 60529 Ed2.2: 2013

Issue Date: 11-Jan-2017

No. of pages: 09

Prepared by: Test, Engineer

Verified by: Technical Manager

Approved by:

150 IEC 17075

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Engineering Deputy of Test

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Energy & Power Industries Laboratories Co.(J.S.)

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1. GENERAL INFORMATION

1.1 **Product Information**

Equipment Under Test : Smart Water Flow Meter

Model/Type : Easy Mag Smart 800-ELC

Rating(s) : 220 V

Normative document : IEC 60529 Ed2.2 - 2013

1.2 **Client Information**

Applicant : Pasargad Water and Energy Equipment Engineering

1.3 **Tests Performed**

Marking **PASSED**

IP6X, Test for Protection Against Dust **PASSED**

IP6X, Test for Protection Against Access to Hazardous Parts **PASSED**

IPX8, Test for Protection Against Water **PASSED**

Results of Tests

See Page 4-7

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2. PERFORMANCE AND RESULTS OF TESTS

2.1. Marking:

2.1.1 Test data

Location

: E.P.I.L.

Date

: 11-Jan-2017

Engineer of EPIL

: R. Alaei

Normative document

: IEC 60529 Ed2.2 - 2013

2.1.2 Procedure of test

Compliance with The requirements of sub clause 10, IEC 60529 for marking shall be specified in the relevant product standard.

2.1.3 Acceptance conditions of test

Compliance with the requirements of sub clause 10 of IEC 60529 had checked by inspection.

2.1.4 Result of test

Test was done according to IEC 60529, sub clause 10 and it passed the test.

✓ PASSED

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2.2 IP6X, Test for Protection Against Dust

2.2.1 Test data

Location

: E.P.I.L.

Date

: 08-Jan-2017

Engineer of EPIL

: R. Alaei

Normative document

: IEC 60529 Ed2.2 2013

2.2.2 Ambient conditions

Ambient Temperature

: 17 °C

Relative Humidity

: 31 %

Atmospheric Pressure

: 86.5 kPa

2.2.3 Instrument used for the test

Dust Chamber Vacuum pump

2.2.4 Procedure of test

The object test under test is placed in its normal operating position in dust chamber and the powder circulation pump would be in working condition. Talcum powder shall be used.

The pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump. The suction connection made to a hole specially provided for this test. The object of the test is to draw into the enclosure by means of depression. A volume of air 80 times the volume of the sample enclosure tested without exceeding the extraction rate of 60 volumes per hour. In no event, shall the depression exceed 2 kPa (20 mbar).

The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50 μ m and the nominal width of a gap between wires is 75 μ m (according to IEC 60529). The duration of the test was 8 h (According to IEC 60529).

2.2.5 Acceptance conditions of test

The protection is satisfactory if no deposit of dust is observed inside the enclosure at the end of the test.

2.2.6 Result of test

The test was done according to EC 60529 and it passed the test.

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2.3 IP6X, Test for Protection Against Access to Hazardous Parts

2.3.1 Test data

Location

: E.P.I.L.

Date

: 08-Jan-2017

Engineer of EPIL

: R. Alaei

Normative document

: IEC 60529 Ed2.2 - 2013

2.3.2 Ambient conditions

Ambient Temperature

: 17°C

Relative Humidity

: 31%

Atmospheric Pressure

: 86.5 kPa

2.3.3 Instrument used for the test

Standard rigid steel rod 1 - 1.05 mm diameter (figure of table VI - IEC60529).

2.3.4 Procedure of test

The standard probe is pushed against any openings of the enclosure with the force 1±10%N.

2.3.5 Acceptance conditions of test

The access probe shall not touch the surface of the protected space.

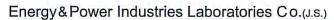
2.3.6 Result of test

Test was done according to IEC 60529 and it passed the test.

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2.4 IPX8, Test for Protection Against Water

2.4.1 Test data

Location

: E.P.I.L.

Date

: 09-Jan-2017

Engineer of EPIL

: R. Alaei

Normative document

: IEC 60529 Ed2.2 2013

2.4.2 Ambient conditions

Ambient Temperature

: 19.6 °C

Relative Humidity

: 33 %

Atmospheric Pressure

: 86.5 kPa

2.4.3 Instrument used for the test

Immersion tank

2.4.4 Procedure of test

The conditions to be observed are as follows: The lowest point of enclosures is 1000 mm. The duration of the test is 1 h.

2.4.5 Acceptance conditions of test

After testing the EUT shall be inspected for ingress of water according to conditions that are specified in IEC 60529.

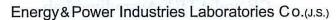
2.4.6 Result of test

Test was done according to IEC 60529 and it passed the test.

✓ PASSED

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3. FIGURES:



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Figure 1: EUT







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Figure 2: EUT after IP6X

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