

Test Report

Nº B24-14-BE-03E



Test of degree of protection IP66

TEST SAMPLE	SALTO Padlock
MODEL	GiP2xx
REQUESTED BY	SALTO SYSTEMS, S.L.
MANUFACTURER	SALTO SYSTEMS, S.L. Arkotz 9 Pol. Lanbarren 20180 OIARTZUN (Gipuzkoa)
STANDARD	IEC 60529:1989+A1:1999+A2:2013
RECEPTION DATE	29 th April 2014
TEST DATE	29 th April to 6 th May 2014
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* The present report refers only and exclusively to the sample tested and at the moment and conditions in which the measurements were made.
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1. IDENTIFICATION AND CHARACTERISTICS OF TEST SAMPLE

SALTO Padlock

Model: GiP2xx

2. TEST FACILITIES ADDRESS

The performance of the tests were made in the TECNALIA's Laboratory allocated in Burceña-Barakaldo - Bizkaia- Spain.

3. TESTS PERFORMED. STANDARD

Tests for degree of protection IP66 against access to hazardous parts, against ingress of solid foreign objects and against water have been performed according to IEC 60529:1989+A1:1999+A2:2013 "Degrees of protection provided by enclosures (IP Code)".

A calculation of uncertainties for all measurements carried out is available.

4. PROTECTION AGAINST ACCESS TO HAZARDOUS AREAS, RESISTANCE AGAINST INGRESS OF FOREIGN PARTICLES AND DETRIMENTAL ENTRY OF WATER

4.1. Protection against access to dangerous areas (IP6X)

In order to meet the requirements according to the first characteristic 6, a test gauge of 1 mm Ø applied with a force of 1 N ± 10% shall not penetrate into the enclosure.

Ambient air conditions: 21 °C – 45% HR – 1019 mbar.

RESULT. **CORRECT:** The test gauge does not penetrate into the enclosure.

4.2. Protection against access of foreign particles (IP6X)

The test sample was placed inside a suitable test chamber containing a suspension of the required quantity (2 kg/m^3) of talcum powder (this powder must pass through a square-mesh screen of $50 \text{ }\mu\text{m}$ wire diameter and $75 \text{ }\mu\text{m}$ mesh size).

The test was performed with sub-pressure of 20 mbar.

The test time was 8 hours for each test sample.

Atmosphere air conditions: 21 °C – 45% HR – 1019 mbar.

RESULT: **CORRECT**. No powder deposit was observed inside the sample after the test.

4.3. Protection against water (IPX6) for outdoor

Test is made by spraying the enclosure from all practicable directions for a test duration of 3 minutes and from a distance of 3 m. Applied water stream is as supplied from a standard nozzle (internal diameter 12,5 mm), with a water delivery rate of 100 l/min.

Ambient conditions: 21 °C – 45% HR – 1019 mbar.

Water temperature: 18 °C.

RESULT. **CORRECT**. No water entry is observed inside the sample.



Test sample

NOTE:

From the detailed study of each manufacturing range, the results obtained over the test sample are also applicable to the following models

- G2P21xx, G7P21xx, G8P21xx, G9P21xx, GHP21xx