




TEST REPORT No. 131/BT/2024

Subject:	Testing the IP67 ingress protection rating of "QuSpot series" enclosures
Orderer:	Wireless Instruments Kościuszki 27, 52-116 Iwiny
Project No:	UP/BT-33346/OR
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Date and place of tests:	16.09.2024 at the KOMAG Institute of Mining Technology at Pszczynska 37 in Gliwice, Poland

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1. Subject of testing

The enclosures, delivered by the Orderer, were the objects of testing. The objects were marked by the Laboratory with the following sample numbers:

- 166/24/1 – IP6X test (S/N: 45773)
- 166/24/2 – IPX7 test (S/N: 45774)

The tested objects are presented in Fig. 1 and 2.

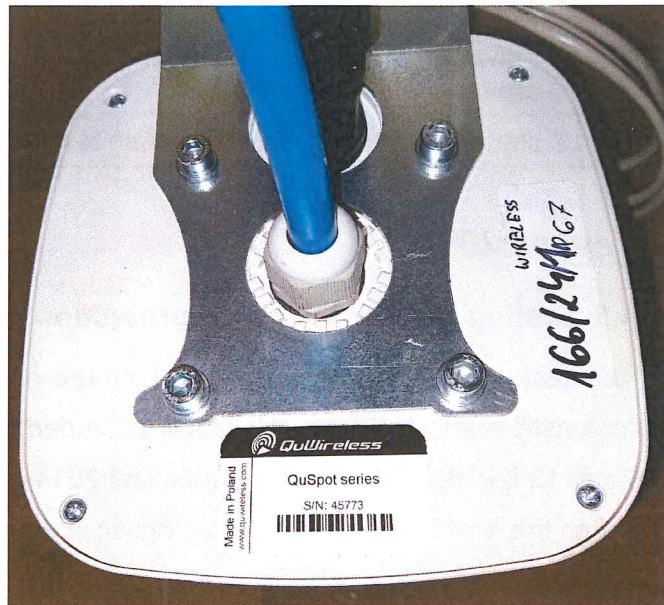


Fig. 1. Tested object sample no. 166/24/1

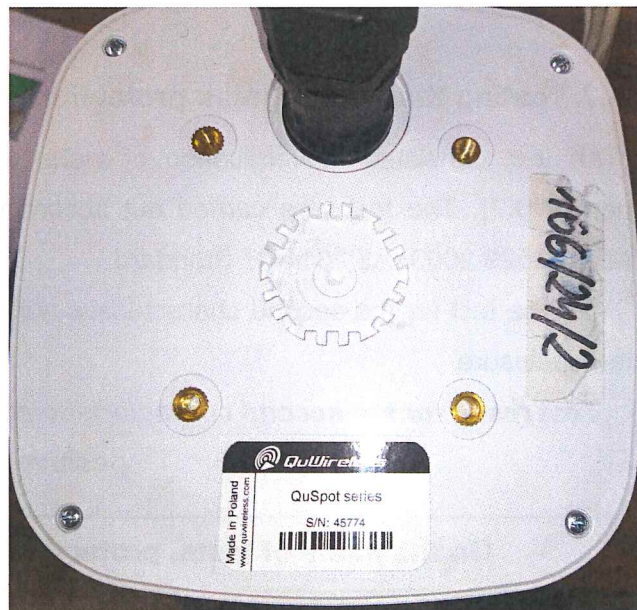


Fig. 2. Tested object sample no. 166/24/2

2. Scope of tests

The scope of tests included testing the IP67 ingress protection rating, according to the requirements of the *PN-EN 60529:2003+A2:2014-07 Degrees of protection provided by enclosures (IP Code) Standard*.

3. List of instruments used for tests

The following instruments were used for tests:

<i>Name of the instrument</i>	<i>Id number</i>
Dust chamber with vacuum pump	KiŚ5
Test stand for water ingress protection testing	KiŚ6

4. Test results

4.1. Testing the IP 6X ingress protection rating

The test consisted in verification of protection level against ingress of dust (the first characteristic numeral IP6X). The test was carried out according to the requirements of item 13.4 and 13.6 of the *PN-EN 60529:2003+A2:2014-07 Standard*.

After the test for the first characteristic numeral IP6X, no dust was found inside the tested enclosure.

Test result for the first characteristic numeral IP6X of the tested enclosure is positive.

4.2. Testing the IPX7 ingress protection rating

The test consisted in verification of water ingress protection (second characteristic numeral IPX7). The test was carried out according to the requirements of item 14.2.7 of *PN-EN 60529:2003+A2:2014-07 Standard*.

After the test for the second characteristic numeral IPX7, no water was found inside the tested enclosure.

Test result for the second characteristic numeral IPX7 of the tested enclosure is positive.

On the basis of tests, protection level IP67 is confirmed.

- END OF THE REPORT -