MS TESTING

UKAS TESTING 4413

TL23105E

European Safety Systems Limited

Ingress Protection

EN 60529: 1992 + A2: 2013 (IPX8)

Push Button Call Point
STExCP8-PB

19th September 2023

Contents

1 SCOPE OF WORK 3

2 EQUIPMENT UNDER TEST 3

3 TEST LABORATORY 5

4 TEST SPECIFICATION, METHODS AND PROCEDURES 6

4.1 TEST DETAILS 6
4.2 TEST PROCEDURES 6

5 OPERATION OF THE EUT DURING TESTING 7

5.1 SYSTEM CONFIGURATION 7
5.2 ACCEPTANCE CRITERIA 8

6 TEST RESULTS 9

6.1 SAMPLES 9
6.2 SUMMARY OF TEST RESULTS 10
6.3 EQUIPMENT PERFORMANCE 10
6.4 IPX8 11

1 SCOPE OF WORK

Test requirements

This file contains the results of tests carried out to meet the requirements of EN 60529: 1992 + A2: 2013 (IPX8).

2 EQUIPMENT UNDER TEST

The tests were performed only on the sample shown below:

Description	The EUT is a push button call point for hazardous areas.

Item	Model	Unique Identifier
Push Button Call Point (IPX8)	STExCP8-PB	001

All model numbers and unique identifiers were supplied by the client or taken from the supplied EUT. The sample tested was selected and provided by the client. The laboratory did not sample the selected EUT.

The client stated that the unit tested forms part of a range of products that share the same IP housing. It was decided that testing only one product from the range was necessary as the unit enclosures are identical and the only difference is the internal electronics. This report is only for the model tested.

The following models are units within this range. Only the STExCP8-PB was tested. – STExCP8-PB, STExCP8-PM, STExCP8-PT, WP8-PB, WP8-PM and WP8-PT form the range of identical units.

Date of Receipt	3rd August 2023

Date of Testing	24th August 2023 – 29th August 2023

Client: European Safety Systems Limited
Unit B Impress House
Mansell Road Acton
London
W3 7QH

Contact: Mr Randip Rait

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Test Results

The equipment under test complied with the requirements of the specification. This test report may not be reproduced in whole or part without the prior written approval of the laboratory. The test results in this report are facts and any opinions or interpretations derived from these facts shall be marked *

Signed

Mr. Stephen Lee
Laboratory Manager

3 TEST LABORATORY

The tests were carried out at MS Testing, located in Newton Aycliffe, Co. Durham, UK.

Laboratory accreditation:

MS Testing is UKAS Accredited Test Laboratory No. 4413.

Ambient conditions in the laboratory:

PARAMETER	Required (Lloyd's Specification 1)
Temperature °C	15 – 35
Humidity % RH	42 – 78
Barometric pressure mbar	860 - 1060

4 TEST SPECIFICATION, METHODS AND PROCEDURES

4.1 Test Details

The tests detailed in this file are –

	Test	Basic Standard
6.4	Ingress Protection X8 (IPX8)	EN 60529: 1992 + A2: 2013

4.2 Test Procedures

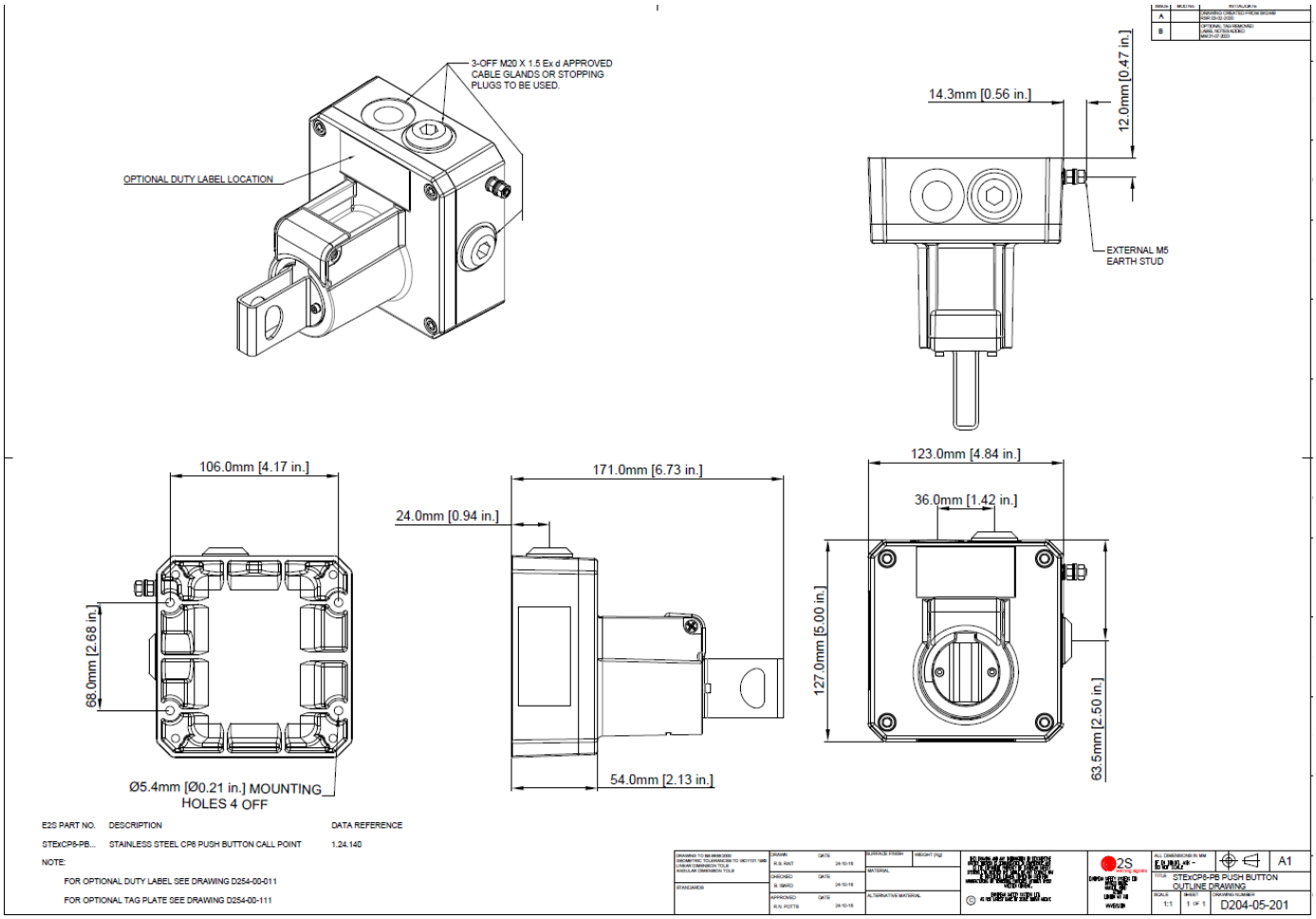
IPX8

The enclosure under test is placed in its normal operating orientation into a pressure vessel and submerged in 200mm of water, the vessel is pressurised so that the EUT experiences the pressure associated with a depth of 35m for 40 hours.

5 OPERATION OF THE EUT DURING TESTING

5.1 System Configuration

The equipment was not powered during any of the testing, the enclosure was checked after the test for ingress as applicable.



5.2 Acceptance Criteria

IPX8

No water shall enter the enclosure that will either impair safety or correct operation given in the acceptance criterion of the standard.

6 TEST RESULTS

6.1 Samples

Sample 1 –The EUT was the original sample with no modifications.

6.2 Summary of test results

Basic Standard	Test	Result	Sample
EN 60529	Ingress Protection IPX8	Complied	1

6.3 Equipment Performance

Specification

The conformance to drawings is checked and a functional performance test is demonstrated to ensure that the system operates in accordance with the customer's instructions where applicable.

Test Procedure

The equipment was checked to ensure it was sealed as the customer required it and to the correct torque.

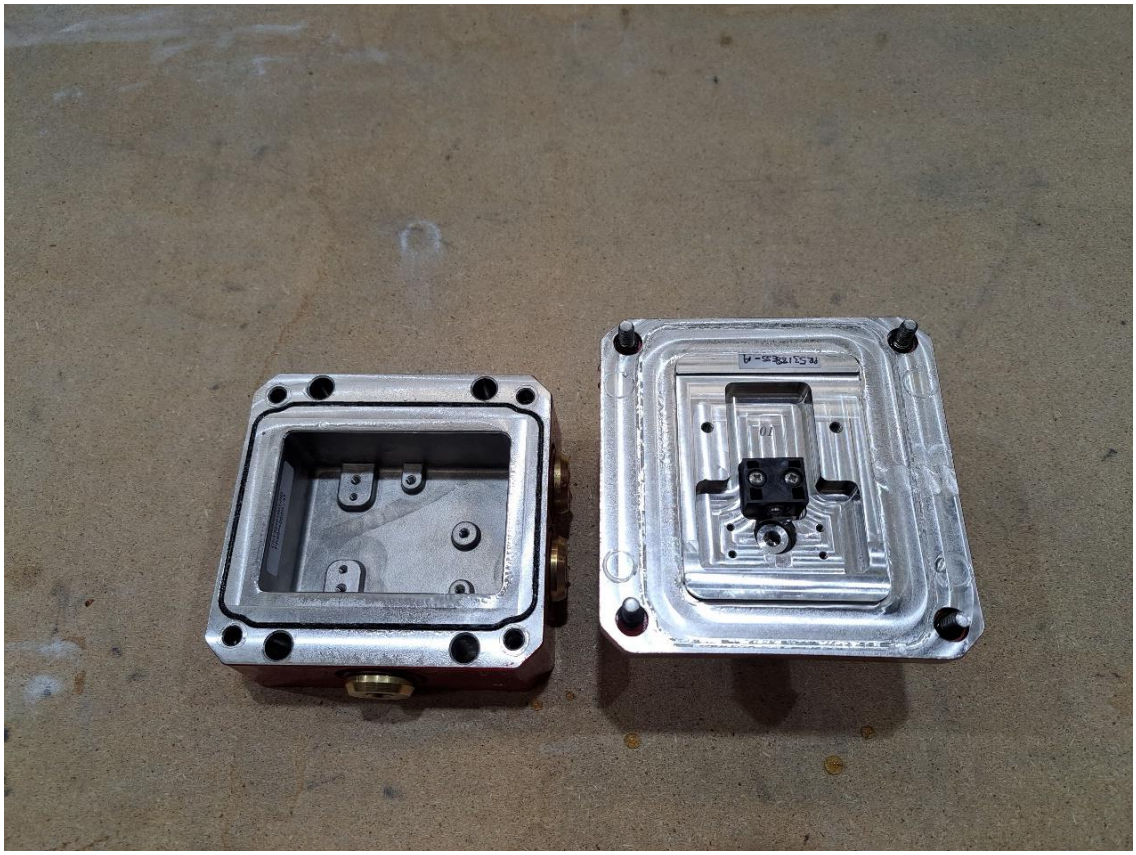
6.4 IPX8

Basic Standard:	EN 60529: 1992 + A2: 2013
Applicable:	Enclosure

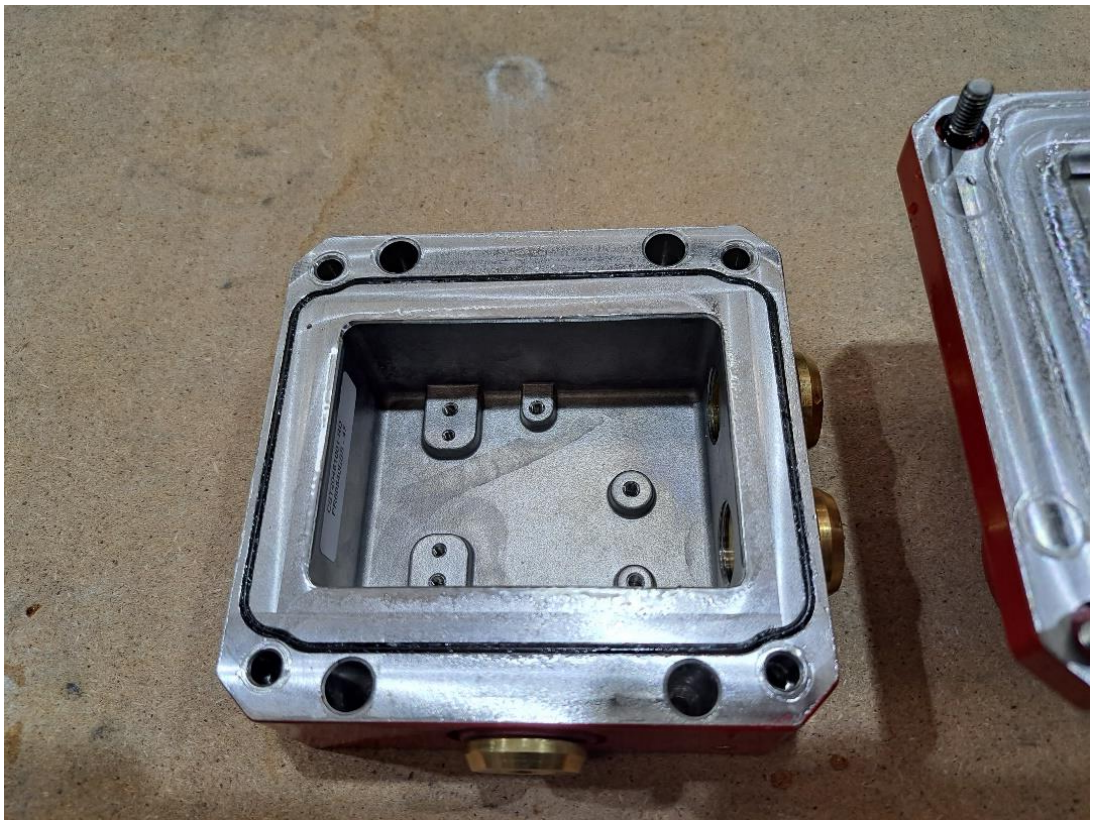
Test Result

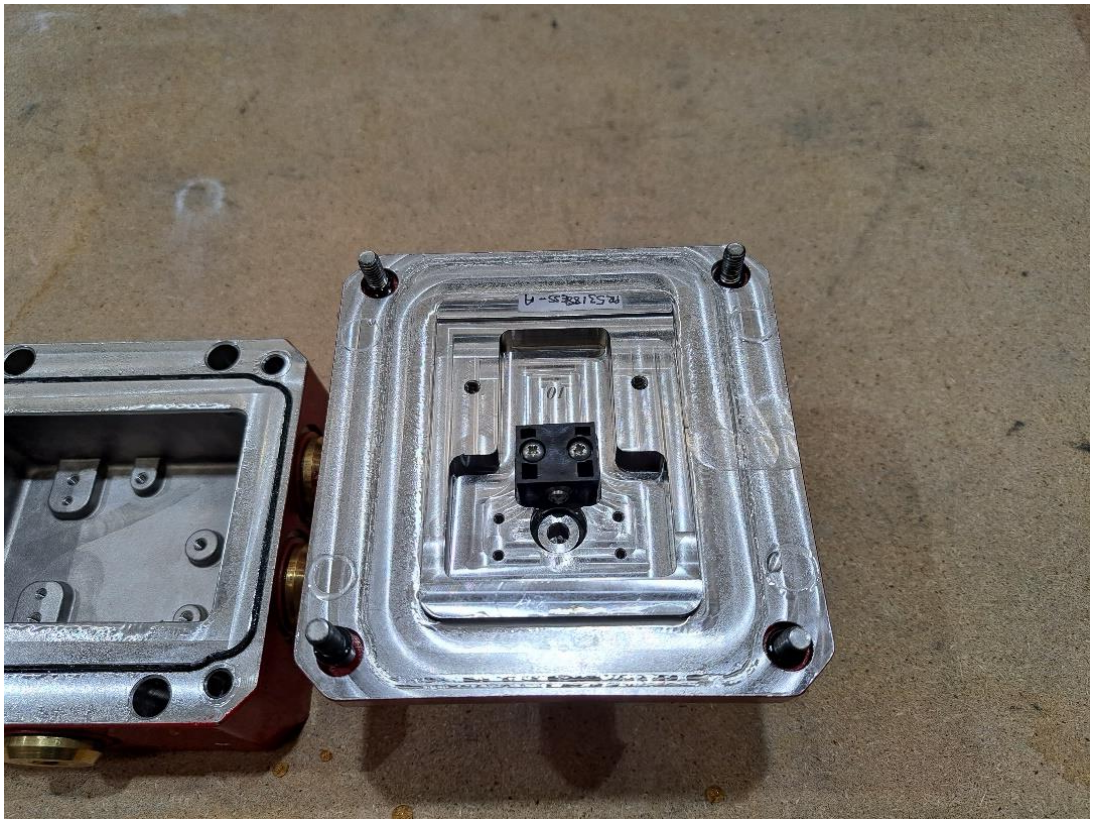
The enclosure under test is placed into a pressure vessel and submerged in 200mm of water, it is then pressurised to simulate a depth of 35m for 40 hours.

The enclosure was opened after the test and there was no ingress of water.



Test Results





Test Setup

Test Equipment

Equipment	Model	Serial
Pressure Vessel	-	-
Thermocouple	Fluke 52	6209074
Tape Measure	RS Pro	-

END OF REPORT

1	Original Issue	S. Lee	19th September 2023
ISSUE	**MODIFICATION**	**ISSUED BY**	**DATE**

This test report relates only to the actual item(s) tested, details of which can be found in Section 2 of this report

The test results in this report are facts and any opinions or interpretations derived from the results of these tests shall be marked *

Any testing not presently covered by the scope of our UKAS Schedule of Accreditation shall be marked †