



Technical Report No. 704202410790-00

Applicant : agtatec ag
Allmendstrasse 24, CH-8320 Zurich Fehraltorf, Switzerland

Attn : --

Manufacturer : Record Automatic door (Shanghai) Co. Ltd.
No.5 building Number 1969 Huibin Road, Qingpu Industrial Zone,
Shanghai, P.R.C

Attn : --

Trade mark : Record

Type of equipment : record STA20 IP66, RED/DUO incl. VRR20, BAT16, FEM0 and
Drive unit ATE 20-200

Model/type : Record STA20 PROTECT

Test Specifications : IEC 60529:1989+A1:1999+A2:2013

Documentation submitted : See attachment
Issued by: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai
Branch

Start Date : 2024-12-24

Sample size : 1 set (incl. 5 Pcs)

Purpose of examination : IP66 test (details requirements see 4. Remarks)

Results : Pass

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1. Description of the equipment:

Rated voltage : Not provided.
Rated current : Not provided.
Protection class : Not provided.
Degree of protection against ingress of liquids : IP66
Rated operation : Continuous

2. Rating label:

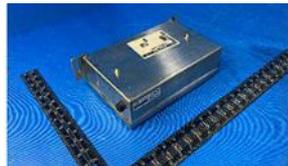
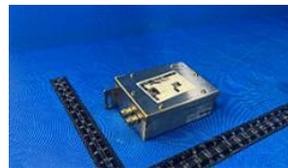
Not provided.

3. Deviations:

N/A

4. Remarks:

IP6X tested on whole set, which is of 5 pcs connected together for once test.

No.	Item number & Index:	Product name on drawing:	label name:	illustration
1	102-020815718 C	Ctrl mod IP6X STM20-200RED/DUO	STM20-200 RED/DUO IP6X	
2	102-020815719 C	Battery IP6X BAT 16 cpl	Battery IP6X BAT 16 cpl	
3	102-020815717 A	Drive unit IP6X ATE 20-200 cpl	Drive unit IP6X ATE 20-200	
4	102-020815721 A	Locking device IP6X VRR 20 cpl	VRR 20 IP6X cpl	
5	102-020815720 B	Extension mod IP6X FEM 0 cpl	Extension mod IP6X FEM 0 cpl	

Test results see Safety Aspects.

Performed By : Shanshan HUANG

Reviewed and Approved By : Dajun JIANG

Date of issue : 2025-02-25



Safety Aspects

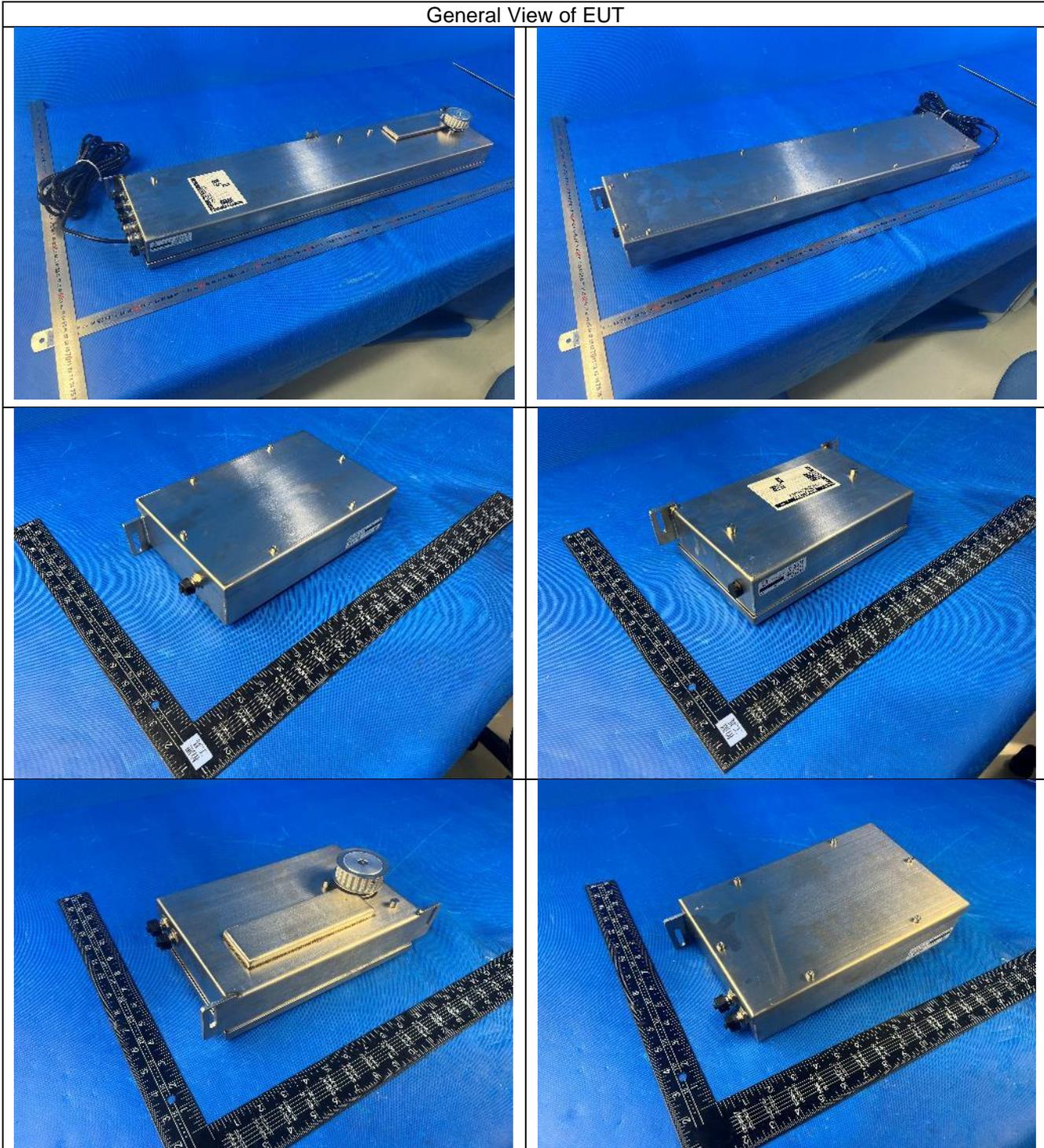
Standards : IEC 60529:1989+A1:1999+A2:2013

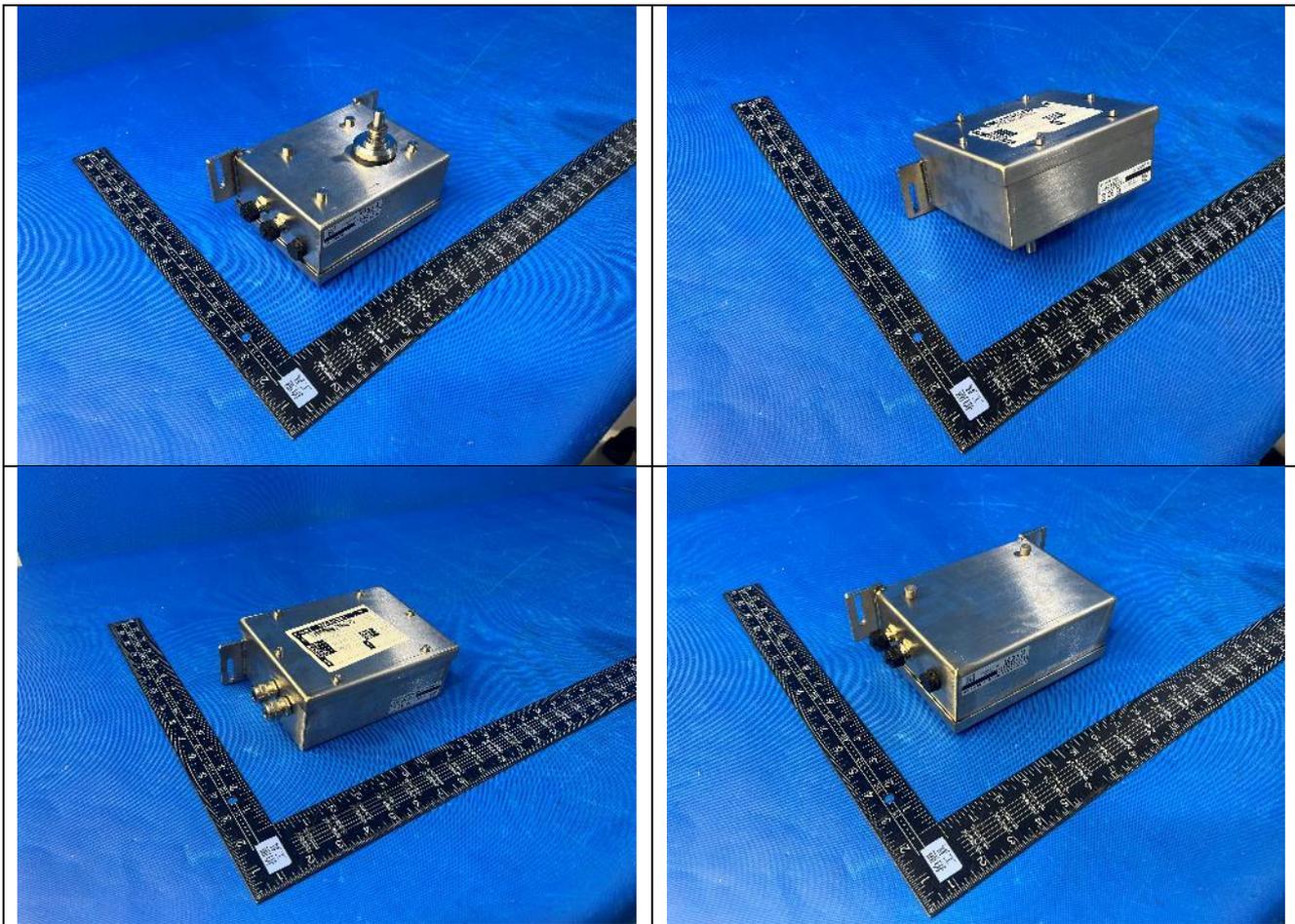
Selected sub-clauses from	Checked points	Requirement	Pass / Fail/Not application	Remark
Clause 12 & 13	IP6X	<p>The test wire of shall not penetrate and adequate clearance shall be kept.</p> <p>The enclosure under test is supported in the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump. The suction connection shall be made to a hole specially provided for this test.</p> <p>If it is impracticable to make a special hole, the suction connection shall be made the cable inlet hole, If there are other holes these shall be treated as intended for normal use on site.</p> <p>The object of the test is to draw into the enclosure, by mean 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.</p> <p>If an extraction rate of 40-60 volumes per hour is obtained the duration of the test is 2h.</p> <p>If , with a maximum depression of 2 kPa, the extraction rate is less than 40 volumes per hour, the test is continued until 80 volume have been drawn through, or a period of 8 h has elapsed.</p> <p>The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.</p>	Pass	The duration of the test is 8h. No dust entered. EUT work nomrally after test.
Clause 14	IPX6	<p>Water jet hose nozzle is 12,5mm diameter, distance is 2,5m to 3m. The water flow rate is 100l/min \pm5%. The duration of the test is at least 3min with 1min/m².</p> <p>The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as shown in figure 6 in standard.</p>	Pass	No water entered.

Equipment list

Type	Manufacture	Model	Equipment ID	Next Calibration
Dust Chamber for IP5X,IP6X	PINPOINT	PT8024	S20111328-YQ	2/6/2025
Temperature Meter	Testo	735-1	S0608234-YQ	5/20/2025
Stopwatch	Casio	HS-70W	S0611277-YQ	5/24/2025
Reel ruler	STANLEY	30-628	S24041402-YQ	5/17/2027
Water Jet Nose Nozzle for IPX5-6	Xinghe (Guangzhou)	SH8104	S0712368-YQ	8/23/2025
Water Supply Station for IP Test	Bozhong	BZ2003-A	S1412912-YQ	8/23/2025
Water Control Box for IP Test	Bozhong	BZ2007	S1412913-YQ	8/23/2025
Ambient Recorder	SATO(佐藤)	7210-00	S16121041-YQ	5/8/2025
Pressure Recorder	Testo	176 P1	S17111137-YQ	6/2/2025

Attachment No.1 Photos
General View of EUT



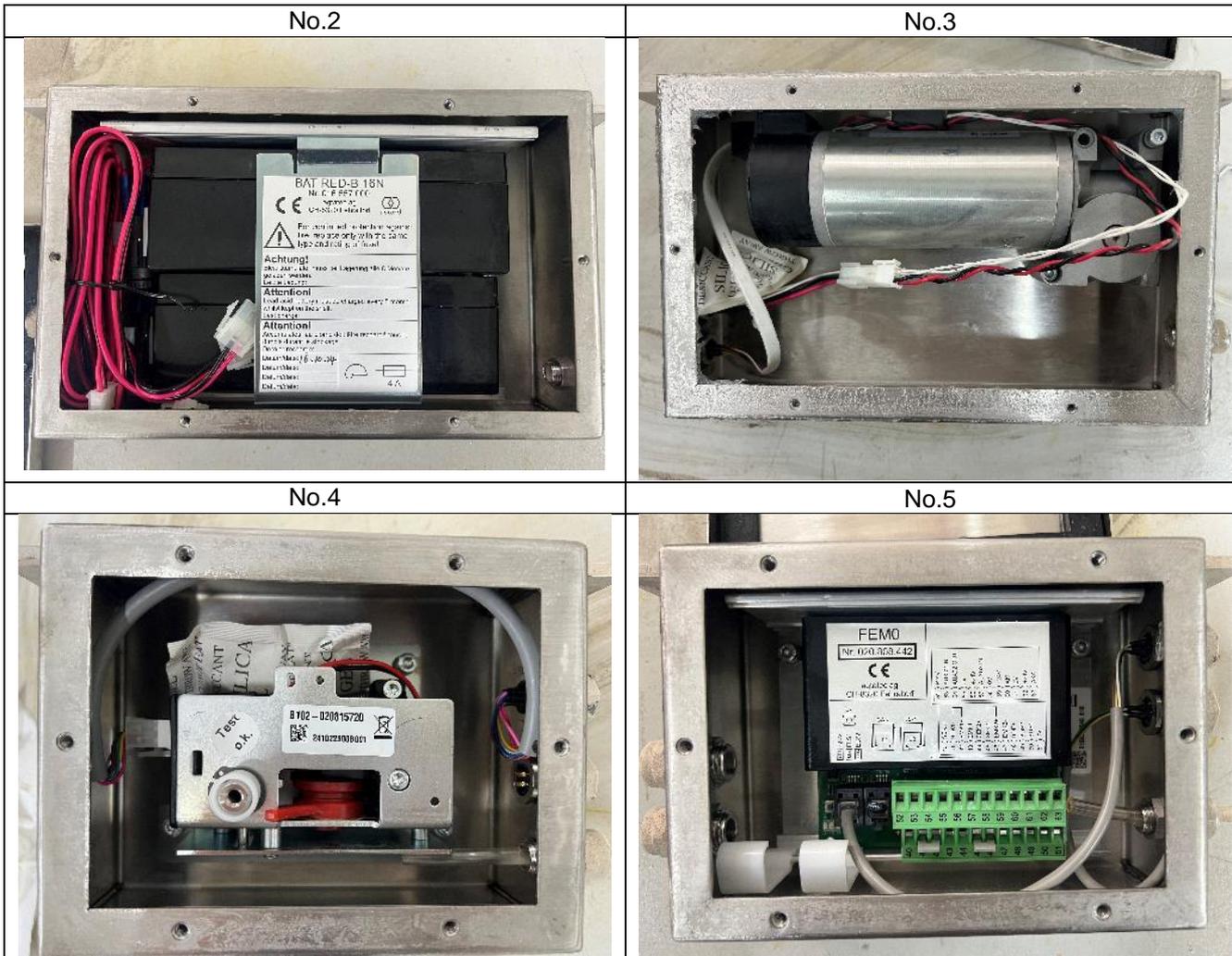


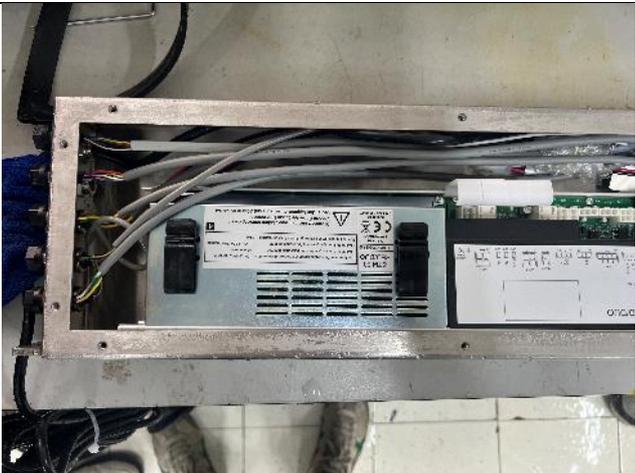
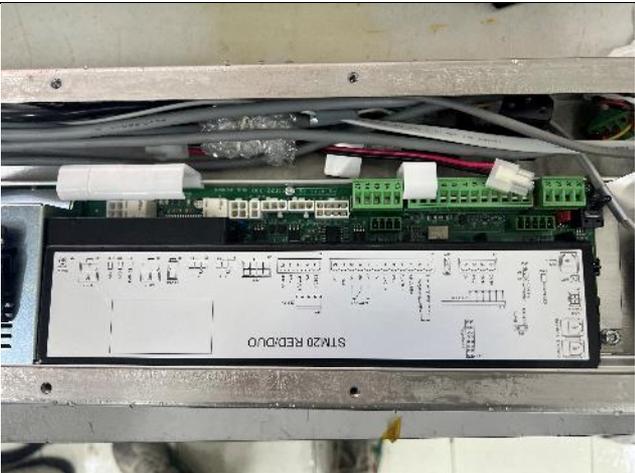
During IP6X

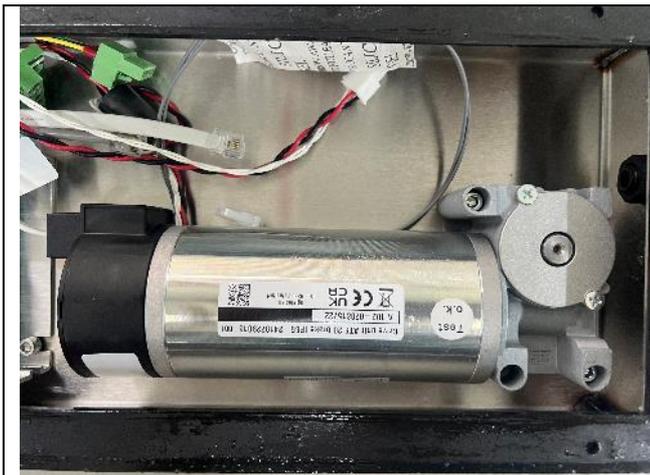


After IP6X test No.1





No.1	
During IPX6	
	
	N/A
After IPX6	
	



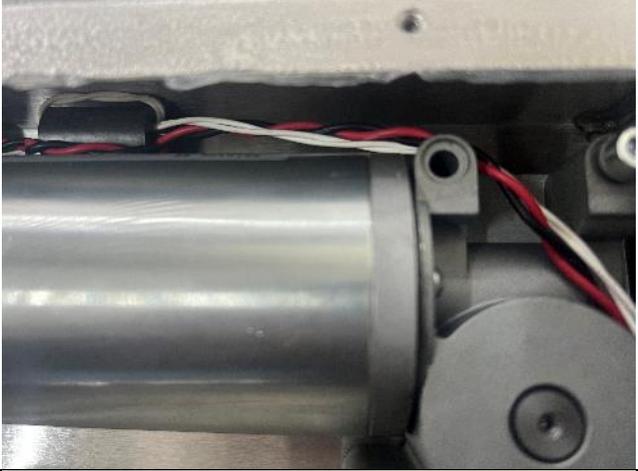
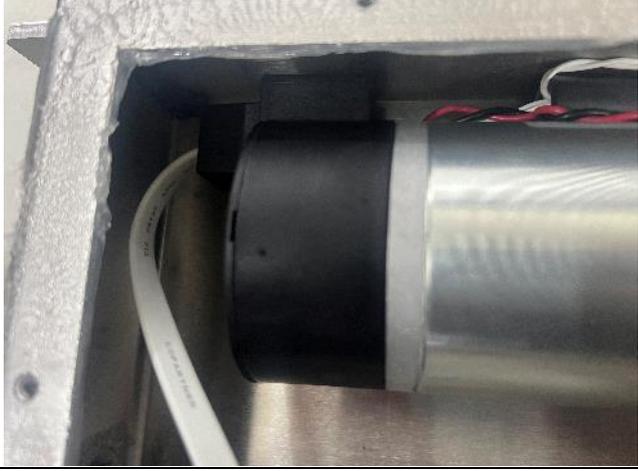
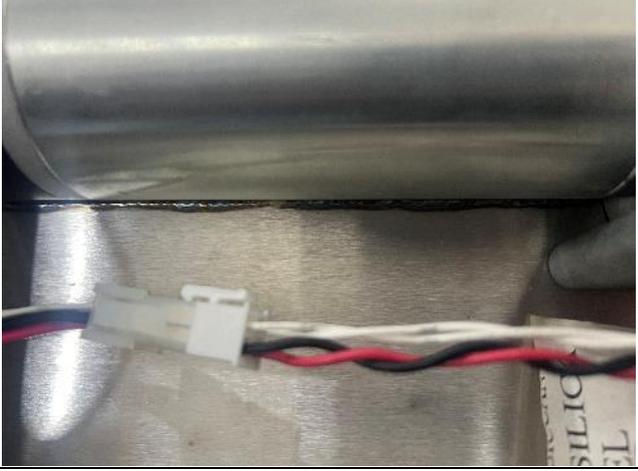
No.2
During IPX6

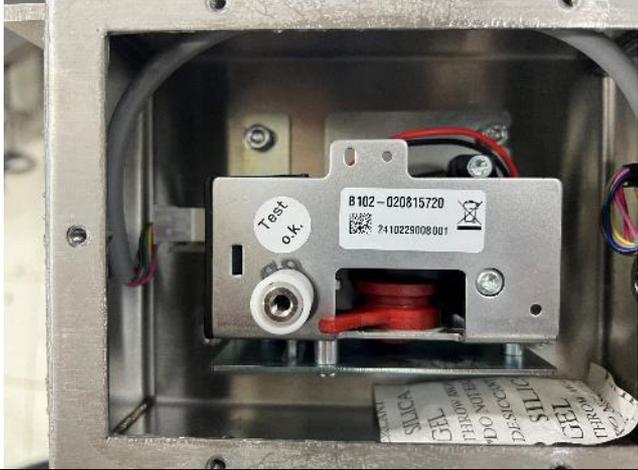
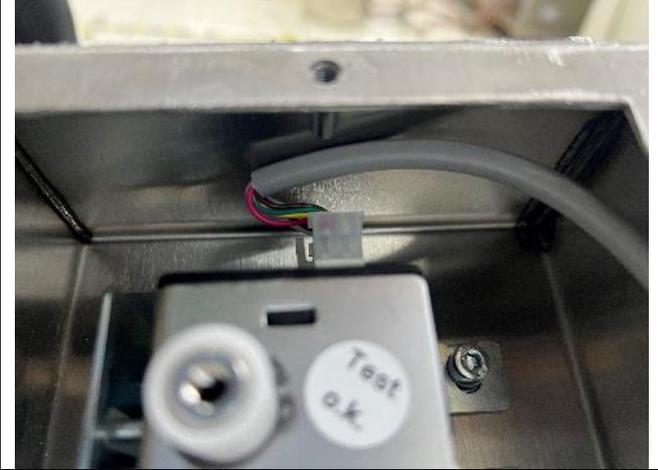
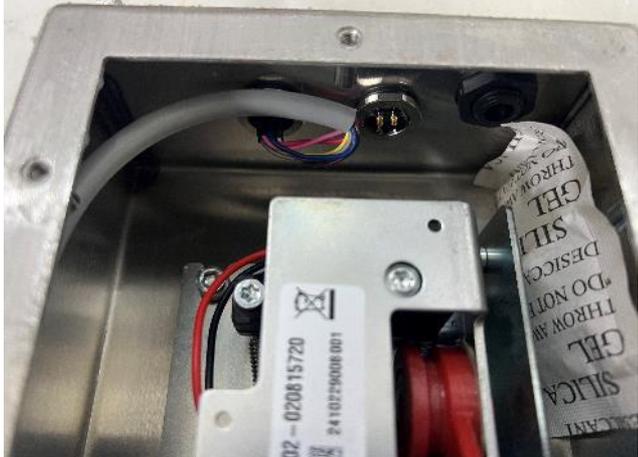


After IPX6



N/A

No.3	
During IPX6	
	N/A
After IPX6	
	
	

No.4	
During IPX6	
	N/A
After IPX6	
	
	N/A

No.5
During IPX6



After IPX6

