LTA

Ref. No. : LR500172207W

Responsibility Test Report

1. Applicant	:	SJI Co., Ltd
2. Address	:	54-33, Dongtanhana 1-gil, Hwaseong-si, Gyeonggi-do, Republic of Korea
3. Date of receipt of test	:	2018-10-05
4. Use of the report	:	Product performance evaluation
5. Test item	:	Asset Tracker
6. Model	:	IET10RC1
7. Series model name	:	-
8. Difference (basic model and series model)	:	-
9. Test Standard	:	IEC 62262:2002 / IK10
10. Test Periods	:	2018-10-10
11. Test Environmental	:	Temperature : (23 ± 5) °C, Humidity: (40 ± 5) % R.H. Atmospheric pressure : (96 – 106) kPa
12. Test Result	:	See test results

※ This test result only responds to the tested sample

※ It is not allowed to copy this report even partly without the allowance of the test laboratory.

※ This report must not be used by the applicant to claim product endorsement by any agency.

※ This report is amendment report because of merger (ieThings Co.,Ltd. -> SJI Co., Ltd) and report form revision (Basic report : LR500171810T)

Confirm	Writer Position : Engineer Name : ChangJun Hwang (Signature)	Approver Position : Technical Manager Name : ByungSeok Kim (Signature)

2022-07-25

LTA Co., Ltd.

1. Laboratory details

1.1 General status

Company name	LTA Co., Ltd.
Address	4, Songju-ro 236beon-gil Yangji-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, 17159 Korea, Republic of
Telephone No.	+82-31-323-6008
Facsimile No.	+82-31-323-6010
Homepage	www.ltalab.com

1.2 Test Location

Address	4, Songju-ro 236beon-gil Yangji-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, 17159 Korea, Republic of
Telephone No.	+82-31-323-6008
Facsimile No.	+82-31-323-6010

2. Test contents and method

2.1 Contents

Contents	Explanation
IK10	Degree of protection provided by enclosures for electrical equipment against external mechanical impacts

2.2 IK10 test(IK 10 Test (20 J) according)

2.2.1 Test conditions

Relation between IK code and impact energy											
IK code	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Impact energy (J)	0	0.14	0.2	0.35	0.5	0.7	1	2	5	10	20

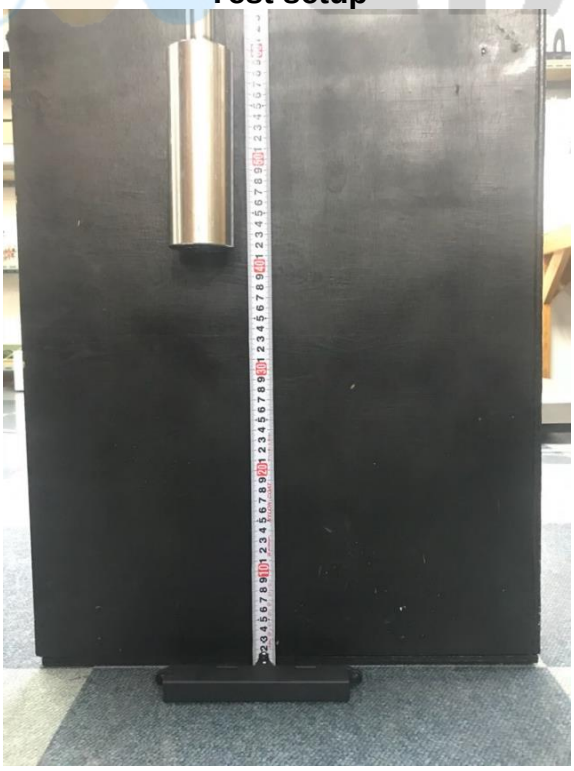
2.2.2 Test method

1) Test equipment : Vertical hammer type impact tester (IEC 60068-2-75)
2) Impact energy : IK10_20 J
   Vertical hammer mass :5.09 kg
   Drop height : 400 mm
3) Total Impact : 12 times (each point at once)
4) Operating mode : Power off
5) Impact positions : Refer to the Figure 4.
6) Preconditioning : 4 hours at (20±3) °C
7) Visual inspection : Check if breakage, crack, and separation occur.

2.2.3 Test photo

Vertical hammer

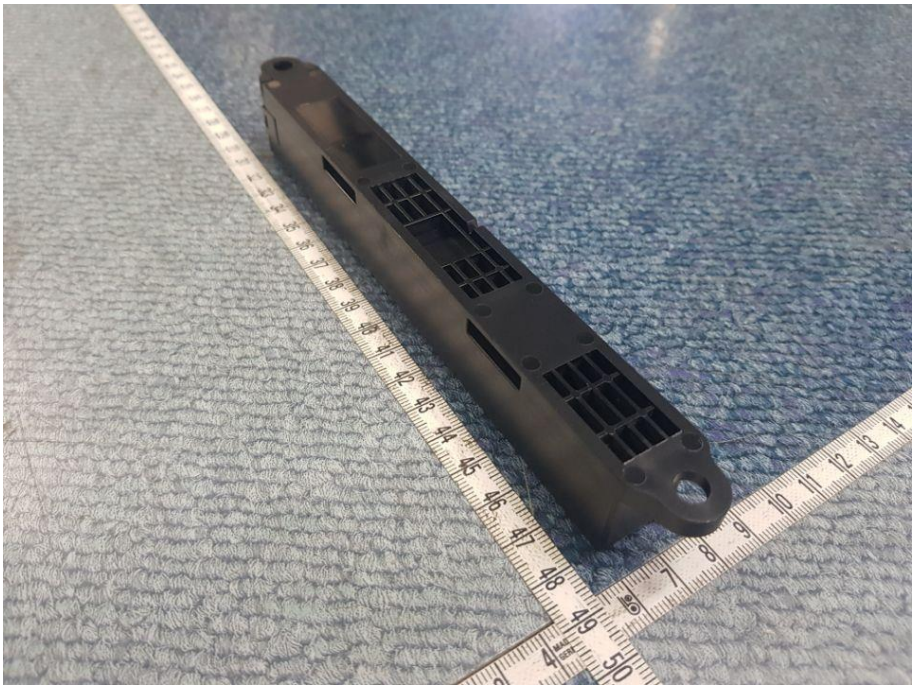
Test setup



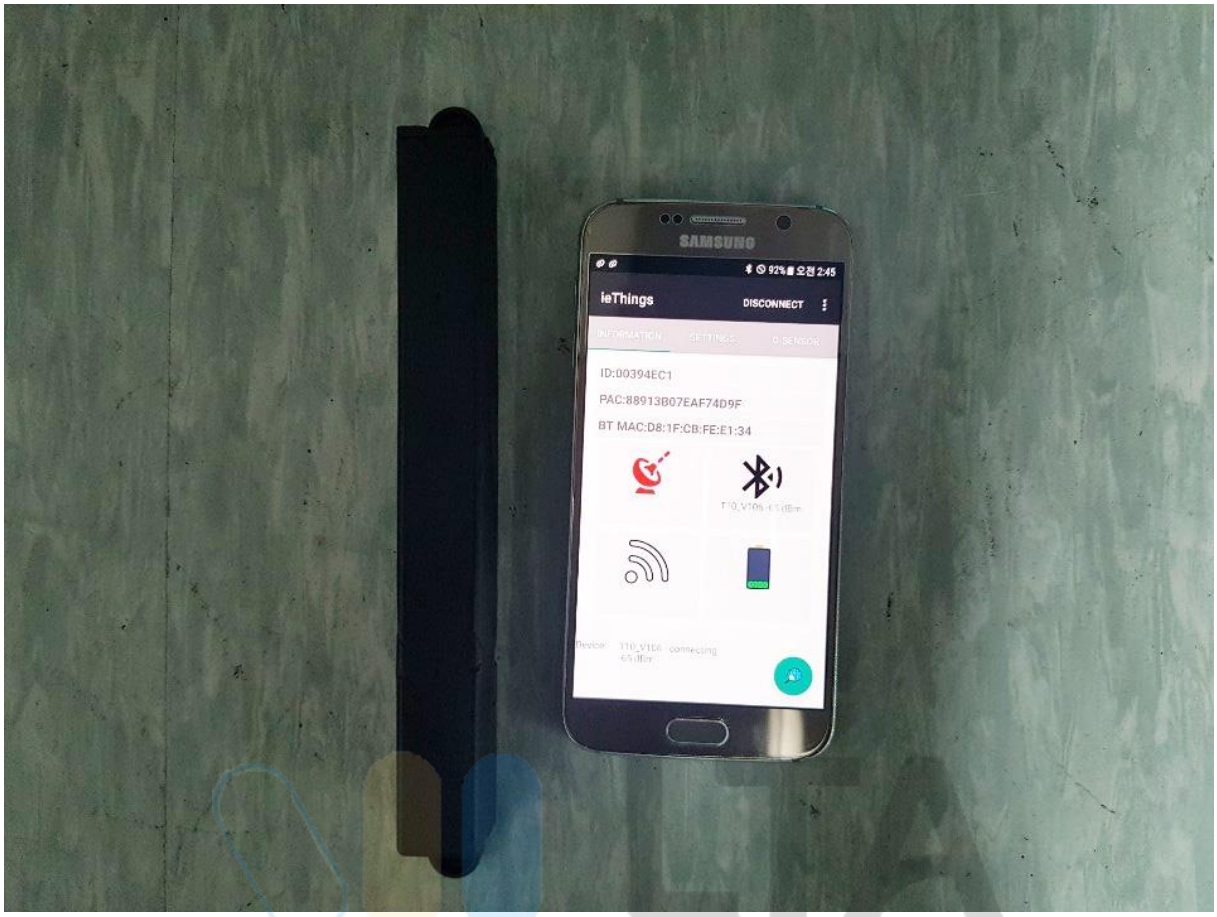
2.2.4 Test result

Contents	Explanation
Breakage, separation	Not breakaged, Not craked, Not separated.

< Before IK10 test >



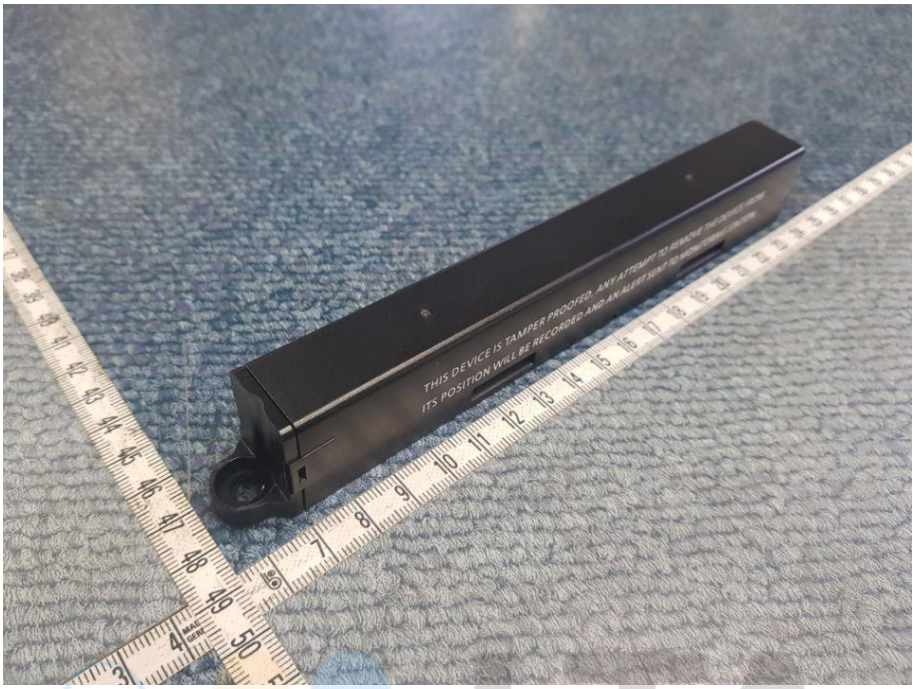
< After IK10 test >



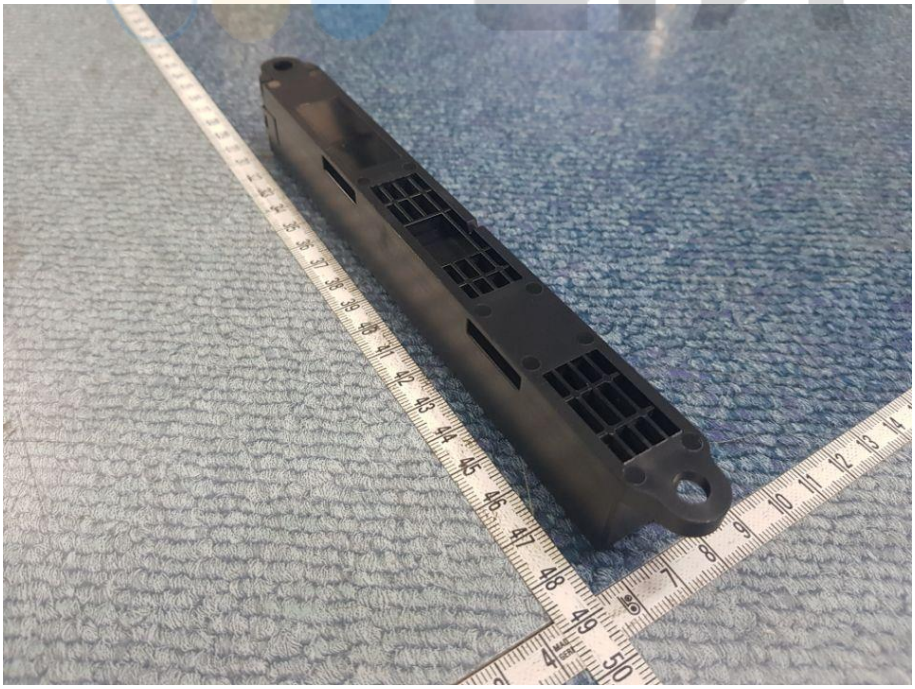
< Operating After IK10 test >

3. Product photographs

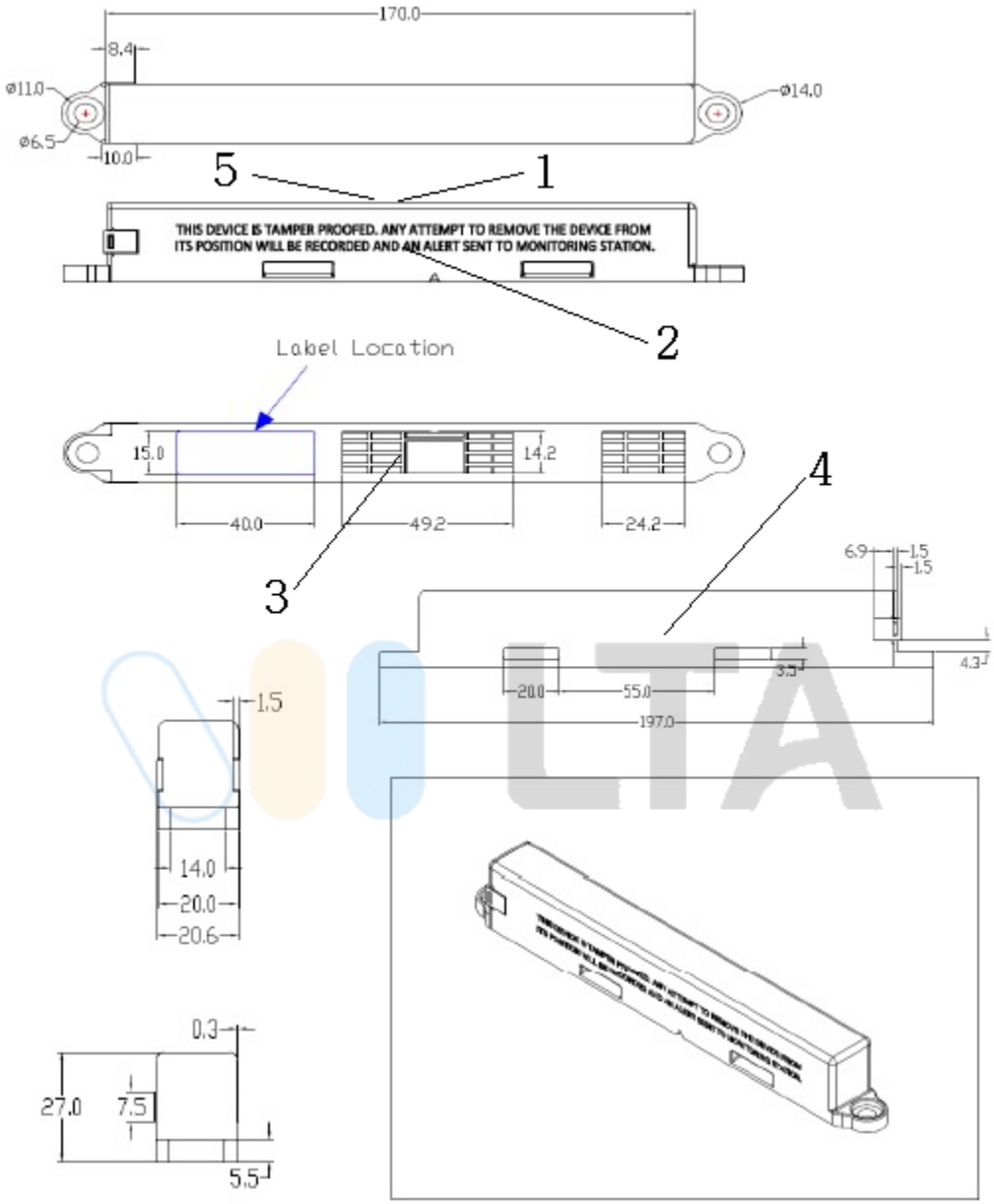
Front View



Bottom View



4. Product drawing



*** The test point was marked.**

5. Test equipment

Control number	Product	Model	Maunfacturer	Date of next calibration	Remarks
LS06010	Digital timer (Stop Watch)	HS-3	CASIO	2019-03-21	0.01 s
LS17110	Straight Rule	KMC-25CV	Komelon	2019-03-21	5.5 m
LS06014	Electronic Balance	FG-60KAL	AND	2019-03-21	60 kg
LS06028	Temp.Humidity Data Logger	SK-L200TH II A	SATO	2019-09-11	(-15-65) °C, (10-99.9) % R.H.
LS06029	Barometer	-	BARIGO	2019-03-21	(960-1060) hPa

6. Test results

Relation between IK code and impact energy											
IK code	IK00	IK01	IK02	IK03	IK04	IK05	IK06	IK07	IK08	IK09	IK10
Impact energy (J)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Pass

* The EUT was complied to IEC 60068-2-75:2014 as IK10 (20 J).
(Environmental testing – Part 2-75: Tests- test Eh: Hammer tests.)