

Safety Test Report

Report No.: AGC08501171201ES01

PRODUCT DESIGNATION: Open-Source Sensor Beacon

BRAND NAME : Ruuvi

MODEL NAME : RuuviTag

CLIENT : Ruuvi Innovations Ltd.

DATE OF ISSUE : Dec. 25, 2017

STANDARD(S) : EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.

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TEST REPORT

EN 60950-1

Information technology equipment-Safety-Part 1: General requirements

Report Reference No..... AGC08501171201ES01

Tested by (+ signature) Devin Ren

Reviewed by (+ signature) Jenny Li

Devin Ren Jennyli mette He Approved by (+signature) (Authorized Officer)

Date of issue Dec. 25, 2017

Contents...... Total 50 pages.

Testing laboratory

Address 2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park

Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Testing location...... Same as above.

Applicant

...... Ruuvi Innovations Ltd.

Address c/o Solventia Rauhankatu 20B20, 06100 Porvoo, Finland

Manufacturer

Name...... Ruuvi Innovations Ltd.

Test specification

Standard...... EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

Procedure deviation...... N/A

Non-standard test method...... N/A

Test Report Form/blank test report

Test Report Form No...... AGC60950A8

Test Report Form(s) Originator....... AGC

Master TRF Dated 2017-01



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	Pitt.			attill distribution of the state of the stat
Test item				
Product designation	Open-Source S	ensor Beacon		
Brand name	Ruuvi			
Test model:	RuuviTag			
Series model:	N/A			
Rating(s):	DC3.0V (supplie	ed by button cell)° II	
Particulars	® Station of Co	(8) Attached Global	Allestation	100 10
Equipment mobility			7	⊠transportable n □direct plug-in
Connection to the mains	:			ype A □type B
4.11		☐permanent c☐detachable p		oord and clother C. Aller
The state of the s		non-detacha		
C Medicinion () Afficiation of C		⊠not directly c		
Operating condition	:	⊠continuous	The state of the s	
		☐rated operati ☐operator acc	- M - For	ne:
Access location	Cooler (S. A.	restricted acc		
Over voltage category(OVC)	C:			II □OVC IV ⊠other
Mains supply tolerance(%) or absolute values		N/A		
Tested for IT power systems	F. Golden Company	□Yes ⊠	No C	
IT testing, phase-phase voltage(V)		N/A		
Class of Equipment	:	☐Class I ☐not classified	☐Class II	⊠Class III
Considered current rating of protective of the building installation (A)	e device as part	N/A		
Pollution degree(PD)	:	□PD 1	⊠PD2	□PD3
Protection against ingress of water				
Altitude during operation (m)	:	2000m		
Altitude of test laboratory (m)	<u> </u>	<500m		
Mass of equipment (kg)	:	Less 0.1kg		
Test case verdicts			HE THE	T. Panames ® 震 Francis
Test case does not apply to the test ob	ject	N (/A)		
Test item does meet the requirement	W 100 000 000	P (ass)		
Test item does not meet the requireme	ent:	F (ail)		
Testing	, .	ini.	The "	The state of the s
Date of receipt of test item	:	Dec. 14, 2017		
Date(s) of performance of test	Copyal Co.	Dec. 14 – Dec.	22, 2017	



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Attachment

Attachment A.....: Photos of product

General remarks

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

"(See remark #)" refers to a remark appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

Report Revise Re	cord:	C American	G Marie La	
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Dec. 25, 2017	Valid	Initial release

General product information

The product supplied by button cell, which considered as moveable and Class III (supplied by SELV).

Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.

The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 40 °C.

Summary of testing

The test item passed.

Copy of marking plates

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Remark:

- 1) The CE marking and WEEE symbol (if any) should be at least 5mm and 7mm respectively in height.
- 2) The markings and instructions are the minimum requirements required by safety standard. For final production samples, the additional markings which do not give rise to misunderstanding may be added.
- 3) As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or mark and the postal address will be marked on the products before being place on the market.
- 4) Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.



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Clause	Requirement – Test	Result – Remark	Verdict
Compliance	IN Property of the second of t	10 10 10	
1 8 5	GENERAL		P
, C	8.11	在那	on of Global Co.
1.5	Components	A Comment of the state of the s	Р
1.5.1	General	CC ***	Р
NG (Comply with IEC 60950 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. (see appended table 1.5.1)	P
1.5.2	Evaluation and testing of components	Components which are certified to IEC/EN and/or national standards are used correctly within their ratings. Components not covered by IEC/EN standards are tested under the conditions present in the equipment.	P
1.5.3	Thermal controls	No any thermal controls.	N N
1.5.4	Transformers	No transformers.	N
1.5.5	Interconnecting cables		N
1.5.6	Capacitors bridging insulation	No such capacitor.	N
1.5.7	Resistors bridging insulation	No such components.	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	GC N	N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N ₂
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable		M N
1.5.8	Components in equipment for IT power systems	- 60	N
1.5.9	Surge suppressors	No such parts.	N
1.5.9.1	General	The Market of th	N N
1.5.9.2	Protection of VDRs	S Manufacture C Manufacture & C	N
1.5.9.3	Bridging of functional insulation by a VDR	, CO	N
1.5.9.4	Bridging of basic insulation by a VDR		N .
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	O M. The State of the Control of the	N

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	EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict			
1.6.1	AC power distribution systems	No direct mains connection.	N			
1.6.2	Input current	(See appended table 1.6.2)	Р			
1.6.3	Voltage limit of hand-held equipment	<250V	The Pompilar			
1.6.4	Neutral conductor	Class III equipment, no neutral conductor.	ord Gue N			

1.7	Marking and instructions		Р
1.7.1	Power rating	See below	® P. Jallor
	Rated voltage(s) or voltage range(s) (V)	DC3.0V(no show)	
® ###	Symbol for nature of supply, for d.c. only		
C Attesti	Rated frequency or rated frequency range (Hz):	1111	
	Rated current (mA or A)	The standard of the standard o	
1.7.1.2	Identification markings	O The state of the	P
mpliance (8) ##	Manufacturer's name or trademark or identification mark	Ruuvi	
a.C. Alte	Type/model or type reference:	RuuviTag	
G	Symbol for Class II equipment only:	Class III equipment	
检测	Other marking and symbols:	See marking plate.	
1.7.1.3	Use of graphical symbols		P
1.7.2	Safety instructions and marking	See report summary for detail	Р
1.7.2.1	General	See below.	P
1.7.2.2	Disconnect devices	No such devices	N
1.7.2.3	Overcurrent protective device		N. W
1.7.2.4	IT power distribution systems		EN Nomph
1.7.2.5	Operator access with a tool	The state of the s	N
1.7.2.6	Ozone		N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment:	No such devices used	N
北	Methods and means of adjustment; reference to installation instructions:	CC PC	N
1.7.5	Power outlets on the equipment	-10	₩ N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	S S S S S S S S S S S S S S S S S S S	N
1.7.7	Wiring terminals	5.C ***	N



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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment, no protective earthing	N	
1.7.7.2	Terminal for a.c. mains supply conductors		N	
1.7.7.3	Terminals for d.c. mains supply conductors	E TO THE STATE OF	nd Clark	
1.7.8	Controls and indicators	BOLE STREET	Р	
1.7.8.1	Identification, location and marking	It is obviously unnecessary.	N	
1.7.8.2	Colours	The colours used for LED are indicating function. No safety consideration.	P	
1.7.8.3	Symbols according to IEC 60417	1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C	N	
1.7.8.4	Markings using figures	Not applicable.	N	
1.7.9	Isolation of multiple power sources:	No direct connection to mains supply	Mariante N	
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices used inside battery pack are not adjustable during normal use.	Z	
1.7.11	Durability	The marking withstands required tests.	Pit	
1.7.12	Removable parts	No such parts.	Salation of N	
1.7.13	Replaceable batteries	Non-rechargeable button cell used. Warning text on the user manual and service manual.	P	
ttestati	Language(s)	English		
1.7.14	Equipment for restricted access locations:	Reference (September 1997)	N	

2	PROTECTION FROM HAZARDS		P. 10
2.1	Protection from electric shock and energy hazards	No hazardous parts in operator access areas.	Find Compliant
2.1.1	Protection in operator access areas	(C) A State of the control of the co	P
2.1.1.1	Access to energized parts	No energized parts.	Р
800	Test by inspection		
	Test with test finger(Figure 2A)	The Samuel The Samuel	
	Test with test pin (Figure 2B)	3 Million of Co. Co. Million of Co.	
The Will	Test with test probe (Figure 2C)	, Go	
2.1.1.2	Battery compartments		N
2.1.1.3	Access to ELV wiring	The Comment of the Control of the Co	N
711A	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	GC TO LOC	
2.1.1.4	Access to hazardous voltage circuit wiring		N



	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
2.1.1.5	Energy hazards	No energy hazard in operator access area.	P
2.1.1.6	Manual controls		N
2.1.1.7	Discharge of capacitors in equipment	No primary circuit.	on of Global N
	Time-constant (s); measured voltage (V)	and come a second secon	
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to mains supply	N
Attestation 0.	a)Capacitor connected to the d.c. mains supply:		Z
≥C	b)Internal battery connected to the d.c. mains supply	The transfer of the state of th	N N
2.1.1.9	Audio amplifiers:	No any amplifiers	N
2.1.2	Protection in service access areas		N
2.1.3	Protection in restricted access locations	拉加	mpliance N

2.2	SELV circuits	C . CO	Р
2.2.1	General requirements	42.4V peak or 60VDC are not exceeded in SELV circuit under normal operation or single fault condition.	P K T
2.2.2	Voltages under normal conditions (V)	Within SELV limits.	Р
2.2.3	Voltages under fault conditions (V)	Within SELV limits.	P
2.2.4	Connection of SELV circuits to other circuits:	五潮。	Nance N

2.3	TNV circuits	- Marie Marie Committee Co	N
2.3.1	Limits	No TNV circuits.	N 🕬
C AM	Type of TNV circuits	1111	The Name
2.3.2	Separation from other circuits and from accessible parts		M N
2.3.2.1	General requirements	- 60	N
2.3.2.2	Protection by basic insulation		N
2.3.2.3	Protection by earthing	I Standard	N Mastalion
2.3.2.4	Protection by other constructions	O Ministerior of Contraction of Cont	N
2.3.3	Separation from hazardous voltages	, CO	N
Altestation of Co.	Insulation employed:		N N
2.3.4	Connection of TNV circuits to other circuits	The state of the s	N
- all	Insulation employed	E Amelatori C C Allesto	N
2.3.5	Test for operating voltages generated externally	CO NO	N



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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
2.4	Limited current circuits	CO " CO "	N
2.4.1	General requirements	No limited current circuits to be evaluated.	N
2.4.2	Limit values	111	W. N. Wolley
9	Frequency (Hz)	The Committee of the Co	N
Tr Ki	Measured current (mA)	C Francisco NG	N
ite station of Glos	Measured voltage (V)	300	N
~ (4	Measured capacitance (nF or μF)	点型 不是那	N
2.4.3	Connection of limited current circuits to other circuits	A A A A A A A A A A A A A A A A A A A	O N

2.5	Limited power sources	10000000000000000000000000000000000000	P
	a)Inherently limited output	Lithium manganese dioxide button battery used.	P
TIII	b)Impedance limited output	CO - CO	N
® .	c)Regulating network limited output under normal operating and single fault condition		N,
Co	d)Overcurrent protective device limited output	The Manual Colons S	N N
玉龙	Max. output voltage (V), max. output current (A), max. apparent power (VA):	CC SCO	
Station of Glove	Current rating of overcurrent protective device (A)	15	M N
	Use of integrated circuit (IC) current limited	To the state of th	N

2.6	Provisions for earthing and bonding		N
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing	表型 不是 · · · · · · · · · · · · · · · · · ·	Fond N
	Use of symbol for functional earthing	30 Me Andrew CO Acc	N
2.6.3	Protective earthing and protective bonding conductors	CC . NO	N
2.6.3.1	General	五型 压起	N F
2.6.3.2	Size of protective earthing conductors	© # John of Column	Nittossu
不不	Rated current (A), cross-sectional area (mm2), AWG:	CC De	N
2.6.3.3	Size of protective bonding conductors		N
	Rated current (A), cross-sectional area (mm2), AWG:	So Manufacture Comments of Com	N



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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.6.3.4	Resistance of earthing conductors and their terminations, resistance(Ω), voltage drop(V),test current (A), duration(min)	Sec Sec Se	S N
2.6.3.5	Colour of insulation	THE TABLE 1	N N
2.6.4	Terminals	and Company	N
2.6.4.1	General		N
2.6.4.2	Protective earthing and bonding terminals	100	N
N.G	Rated current (A), type and nominal thread diameter (mm)	T. B. T. S.	N
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	CC PC	N
2.6.5	Integrity of protective earthing		₩ N
2.6.5.1	Interconnection of equipment	The Williams	N
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	CC Francisco	N
2.6.5.3	Disconnection of protective earth		N
2.6.5.4	Parts that can be removed by an operator	III I The transfer of the second of the seco	N. Son
2.6.5.5	Parts removed during servicing	The Company Company Company	estation o N
2.6.5.6	Corrosion resistance		N
2.6.5.7	Screws for protective bonding		N N
2.6.5.8	Reliance on telecommunication network or cable distribution system	T. Dennis O. T. J. dennis	N ©

2.7	Overcurrent and earth fault protection in primary circuits		N
2.7.1	Basic requirements	No primary circuits.	Nompliane
9	Instructions when protection relies on building installation	internal of the state of the st	N N
2.7.2	Faults not covered in 5.3.7	2C = 10	N
2.7.3	Short-circuit backup protection	: :::	N
2.7.4	Number and location of protective devices:	T 12 Million The Accompliance	® N
2.7.5	Protection by several devices	3) The standard Column (8) The standard of Column (8)	N
2.7.6	Warning to service personnel	1 - GO	N

2.8	Safety interlocks	The Transfer of The Transfer o	M N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	60 00	N
2.8.3	Inadvertent reactivation		N &



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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.8.4	Fail-safe operation	CO CO	N
Combine	Protection against extreme hazard		N
2.8.5	Moving parts		The Name of the Na
2.8.6	Overriding	B. T. Sandania O &	on of Glide N
2.8.7	Switches and relays	and the second s	N
2.8.7.1	Contact gaps (mm)	CO	N
2.8.7.2	Overload test		N a
2.8.7.3	Endurance test	The Common of Th	Nestation
2.8.7.4	Electric strength test	Manufacture Constitution Co	N
2.8.8	Mechanical actuators	100	N

2.9	Electrical insulation	The second of th	N
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	N
2.9.2	Humidity conditioning		N
-C	Humidity (%),temperature (°C)	III	N
2.9.3	Grade of insulation	Thur Completion C Management of Completion o	estation of N
2.9.4	Separation from hazardous voltages		N
F of Global College	Method(s) used:		N N

2.10	Clearances, creepage distances and distances through insulation		N
2.10.1	General	Functional insulation only.	N
® ##	Frequency		N 1
- C M	Pollution degrees		IN N
	Reduced values for functional insulation	Karaman F. Shart Command	N
INF -	Intervening unconnected conductive parts	C Francisco	N
dal Compliance	Insulation with varying dimensions	100	Ν
< G	Special separation requirements	地 地	N
	Insulation in circuits generating starting pulses	S SE Fred Cohe	N
2.10.2	Determination of working voltage	20 30	N
2.10.3	Clearances		N
2.10.3.1	General	The same	ompliance N
2.10.3.2	Mains transient voltages	Control of	N
· in	a)AC mains supply	CO = CO	N
Compliance	b)Earthed d.c. mains supplies:		N



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N

EN 60950-1 Clause Requirement – Test Result - Remark Verdict c)Unearthed d.c. main supplies.....: d)Battery operation.....: 2.10.3.3 Clearances in primary circuits 2.10.3.4 Clearances in secondary circuits 2.10.3.5 Clearances in circuits having starting pulses Ν 2.10.3.6 N Transients from a.c. mains supply.....: 2.10.3.7 Transients from d.c. mains supply.....: Ν 2.10.3.8 Transients from telecommunication networks and N cable distribution systems: 2.10.3.9 Measurement of transient voltage levels Ν a)Transients from a mains supply Ν Ν For a.c. mains supply: Ν For d.c. mains supply: N b)Transients from 2.10.4 Creepage distances N 2.10.4.1 General 2.10.4.2 Material group and comparative tracking index Ν CTI tests Ν 2.10.4.3 Minimum creepage distances Ν 2.10.5 Solid insulation Ν 2.10.5.1 General N 2.10.5.2 Distances through insulation Ν 2.10.5.3 Insulation compound as solid insulation N 2.10.5.4 Semiconductor device N 2.10.5.5 Cemented joints Ν 2.10.5.6 Thin sheet material - General N Ν 2.10.5.7 Separable thin sheet material Number or layers(pcs): N 2.10.5.8 Non-separable thin sheet material 2.10.5.9 Thin sheet material – standard test procedure Electric strength test Ν 2.10.5.10 Thin sheet material – alternative test procedure N Electric strength test N N 2.10.5.11 Insulation in wound components

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\GC 8 Attestation of Global Compliance

Wire in wound components

2.10.5.12





EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1111	Working voltage	CO " CO "	N
30mpha 2	a)Basic insulation not under stress:		N
(R) Attestation	b)Basic, supplementary, reinforced insulation:		The Name
	c)Compliance with Annex U	Barre K. Santon	to or of Gira
平 天 to	Two wires in contact inside wound component; angle between 45° and 90°	CO MINISTER NO	N
2.10.5.13	Wire with solvent-based enamel in wound components		N
	Electric strength test	The Country of the Co	N
	Routine test	20 30	N
2.10.5.14	Additional insulation in wound components		N
9	Working voltage	() () () () () () () () () ()	indianos N
	-basic insulation not under stress	S Figure 1 and a comment of the comm	N-
:701	-Supplementary, reinforced insulation:	-C	N
2.10.6	Construction of printed boards		N
2.10.6.1	Uncoated printed boards	THE COMMENT	N
2.10.6.2	Coated printed boards	K Company @ Manager of Go	estation of N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	10° 10°	N
2.10.6.4	Insulation between conductors on different layers of a printed board	· · · · · · · · · · · · · · · · · · ·	N
	Distance through insulation	(a) The state of t	N
22	Number of insulation layers(pcs)		N
2.10.7	Component external terminations		N
2.10.8	Tests on coated printed boards and coated components	The state of the s	Silon of CoN
2.10.8.1	Sample preparation and preliminary inspection	C Mustaline C	N
2.10.8.2	Thermal conditioning	CO P	N
2.10.8.3	Electric strength test	10000000000000000000000000000000000000	N s
2.10.8.4	Abrasion resistance test	The Comment of the Co	N
2.10.9	Thermal cycling	a.C.	N
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N Tillian
2.10.11	Test for semiconductor devices and cemented joints	So Martin Control of the Control of	N
2.10.12	Enclosed and sealed parts	60 - 60	N



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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
3 1	WIRING, CONNECTIONS AND SUPPLY	CC CC	P	
3.1	General		Р	
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring. No internal wire for primary power distribution.	The Pompilar	
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges that could damage the insulation and cause hazard.	P	
3.1.3	Securing of internal wiring	Internal wiring is reliable secured	P	
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage.	C Poster	
3.1.5°	Beads and ceramic insulators		N	
3.1.6	Screws for electrical contact pressure	· · · · · · · · · · · · · · · · · · ·	M	
3.1.7	Insulating materials in electrical connections	The state of the s	N	
3.1.8	Self-tapping and spaced thread screws	- C *** CC	N	
3.1.9	Termination of conductors		Ν	
(S) SEE	10 N pull test	不是 一	N	
3.1.10	Sleeving on wiring	C Bulling S & Sand Colons S	station of N	

3.2	Connection to a mains supply		N
3.2.1	Means of connection	Class III equipment	N
3.2.1.1	Connection to an a.c. mains supply	The Comment of the Control of the Control of	N
3.2.1.2	Connection to a d.c. mains supply	S American	N
3.2.2	Multiple supply connections		N and
3.2.3	Permanently connected equipment	3111	J. N. Samuel
	Number of conductors, diameter (mm) of cable and conduits:	The state of the s	
3.2.4	Appliance inlets	CC -	N
3.2.5	Power supply cords		N
3.2.5.1	AC power supply cords	The Branch The The Company	[®] N
	Туре	3 Martin de Sant Colombia	
THE TANK	Rated current (A), cross-sectional area (mm²), AWG	, SGO	
3.2.5.2	DC power supply cords	下 B	ompliance N
3.2.6	Cord anchorages and strain relief	es Signatural Comments	N
711	Mass of equipment (kg), pull (N)	CO . CO	
Complian	Longitudinal displacement (mm)	ini	



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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
3.2.7	Protection against mechanical damage	GO " GO "	N	
3.2.8	Cord guards		N	
R) Altestatio	D (mm); test mass (g)	1111		
	Radius of curvature of cord (mm)	Barre II to an a second		
3.2.9	Supply wiring space	© Martin of Cal	N C	

3.3	Wiring terminals for connection of external con-	ductors	N N
3.3.1	Wiring terminals	The Completon	N station
3.3.2	Connection of non-detachable power supply cords	LGC *	N N
3.3.3	Screw terminals	:10	₩ N
3.3.4	Conductor sizes to be connected	The Compilation	The Charles N
- Jul	Rated current (A), cord/cable type, cross-sectional area (mm²):	CO #	
3.3.5	Wiring terminal sizes		N
GC	Rated current (A), type and nominal thread diameter (mm)	TO BE THE OWNER OF THE PARTY OF	<u></u>
3.3.6	Wiring terminals design	of clobal	N
3.3.7	Grouping of wiring terminals	10	N
3.3.8	Stranded wire	·fill	N N

3.4	Disconnection from the mains supply	© Francisco Co.	N
3.4.1	General requirement	Class III equipment	N
3.4.2	Disconnect devices	301	N
3.4.3	Permanently connected equipment	K the state of the	N N
3.4.4	Parts which remain energized	a Solution (8) Afficient Company	N
3.4.5	Switches in flexible cords	- 60	N
3.4.6	Single-phase equipment and d.c. equipment		N //
3.4.7	Three-phase equipment	T. Tomano	N N Hestation
3.4.8	Switches as disconnect devices	a Mariano de Salara de Sal	N
3.4.9	Plugs as disconnect devices	1 60	N
3.4.10	Interconnected equipment		N N
3.4.11	Multiple power sources	A Thursday Of The State of the	N_

3.5	Interconnection of equipment	100		Р
3.5.1	General requirements		T Kingdon's	P. W.



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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
3.5.2	Types of interconnection circuits	SELV circuit only.	Р		
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.	N m		
3.5.4	Data ports for additional equipment	-101	Napiane		

4	PHYSICAL REQUIREMENTS	(S) A STATE COLOR OF THE STATE	PC
4.1	Stability	C	N
Altesia	Angle of 10°	100	N N
	Test: force (N)	The Commence	No ship

4.2	Mechanical strength		Р
4.2.1	General	See below	noliance P
	Rack-mounted equipment.	O THE STATE OF THE	N
4.2.2	Steady force test, 10 N	C TO	N
4.2.3	Steady force test, 30 N	0 10	N
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	P ACOUNT
4.2.5	Impact test	The Company of the State of Company	station a
极	Fall test		N
Fon of Global Com	Swing test		N
4.2.6	Drop test; height(m):	1m; No damage of the enclosure, no energy hazards or damage to enclosure integration after the test.	P
4.2.7	Stress relief test	70℃, 7hours, no hazard.	Р
4.2.8	Cathode ray tubes	No cathode ray tube.	N
	Picture tube separately certified	· 授酬 · 不管 · · · · · · · · · · · · · · · · ·	N N
4.2.9	High pressure lamps	No high pressure lamp	N
4.2.10	Wall or ceiling mounted equipment; force (N):	60 "	N

4.3	Design and construction	IX 10 THE CONTRACTOR	P
4.3.1	Edges and corners	Edges and corners are rounded.	Р
4.3.2	Handles and manual controls; force (N)	, CO D	N
4.3.3	Adjustable controls	No such adjustable control.	₩N
4.3.4	Securing of parts	No loosening of parts is likely to occur.	Р
4.3.5	Connection of plugs and sockets	IEC60083 and IEC60320 connectors are not used in equipment.	P
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	N



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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
700	Torque	60 60	N
Company (C)	Compliance with the relevant mains plug standard		N N
4.3.7	Heating elements in earthed equipment	No heating elements.	not Close N
4.3.8	Batteries	Lithium manganese dioxide button cell used.	Р
Figure of Global Ca	-Overcharging of a rechargeable battery	CO P	N
A CO	-Unintentional charging of a non-rechargeable battery	不是 不是 那	P W
	-Reverse charging of a rechargeable battery	Marian di Gallandia Caranta di Ca	O N
® ##.	-Excessive discharging rate for any battery	- 60	Р
4.3.9	Oil and grease	No Oil and grease.	₩ N
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N
4.3.11	Containers for liquids or gases	No containers for liquids or gases	N
4.3.12	Flammable liquids	The equipment does not contain flammable liquid.	N
ACC ALLOS	Quantity of liquid (I)	五型 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五 五	N
	Flash point (°C)	The Committee of the Control of the	N
4.3.13	Radiation; type of radiation:		Р
4.3.13.1	General		M P
4.3.13.2	Ionizing radiation	No ionizing radiation	N
	Measured radiation (pA/kg)	S The debut comment of the state of the stat	
	Measured high-voltage (kV)		
® St. Stallo	Measured focus voltage (kV)		
	CRT markings	刺	
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N
Compliance Till	Part, property, retention after test, flammability classification	- GC * NO	N
4.3.13.4	Human exposure to ultraviolet (UV) radiation:		N
4.3.13.5	Lasers (including laser diodes) and LEDs	LEDs for indicator only	Р
4.3.13.5.1	Lasers (including laser diodes)	Manager C	N
I IN NE	Laser class:	1 300	
4.3.13.5.2	Light emitting diodes (LEDs)		
4.3.13.6	Other types	The state of the s	N_

12 11 0		
4.4	Protection against hazardous moving parts	N
00		- 10



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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
4.4.1	General	No hazardous moving parts.	N	
4.4.2	Protection in operator access areas		N	
C ALLESAN	Household and home/office document/media shredders		J. N.	
4.4.3	Protection in restricted access locations	but Comme @ # Jon of Columb	N	
4.4.4	Protection in service access areas	CC = 10	N	
4.4.5	Protection against moving fan blades		N	
4.4.5.1	General	不是	® N	
	Not considered to cause pain or injury. a)	Manual Colored	O N	
® ##	Is considered to cause pain, not injury. b)	200	N	
a G Attest	Considered to cause injury. c)	::10	₩ N	
4.4.5.2	Protection for users	The total and th	N	
	Use of symbol or warning	© Affectation of Co.	N	
4.4.5.3	Protection for service persons	GO ZGO	N	
(S) ###	Use of symbol or warning:	111	N	

4.5	Thermal requirements	The state of the s	Р
4.5.1	General	700 10	Р
4.5.2	Temperature tests	(see appended table 4.5)	P P
	Normal load condition per Annex L	The state of the s	
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat	No thermoplastic parts on which parts at hazardous voltage are directly mounted.	N. A.

4.6	Openings in enclosures	2.0	N
4.6.1	Top and side openings		N
10	Dimensions (mm)	T We district The Companies	
4.6.2	Bottoms of fire enclosures	3 A The control of th	O N
下水	Construction of the bottom:		
4.6.3	Doors or covers in fire enclosures		₩ N
4.6.4	Openings in transportable equipment	I Tomboo	N
4.6.4.1	Constructional design measures	® Manufacture of Gallery Company of State of Sta	N
51 All	Dimensions(mm)	40 100	N
4.6.4.2	Evaluation measures for larger openings	测	N



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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
4.6.4.3	Use of metallized parts	GO - GO -	N		
4.6.5	Adhesives for constructional purposes		N		
(B) Attestation	Conditioning temperature (°C), time (weeks):	1111			

4.7	Resistance to fire		P
4.7.1	Reducing the risk of ignition and spread of flame	Use of plastic with the required flammability classes.	Р
C	Method 1, selection and application of components wiring and materials	Method 1 used	© Mare subtr
(S) #50	Method 2, application of all of simulated fault condition tests	CC PC	N
4.7.2	Conditions for a fire enclosure	See appended table 1.5.1	₩ P
4.7.2.1	Parts requiring a fire enclosure	Transferration of Transferration	N
4.7.2.2	Parts not requiring a fire enclosure	Battery complied with LPS, internal components are mounted on PCB rated V-1.	P
4.7.3	Materials		P®
4.7.3.1	General	A TOWN COMMENT	F
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	Р
4.7.3.3	Materials for components and other parts outside fire enclosures	700 500	N
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2 or better.	P
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No high voltage components.	N

5	ELECTRICAL REQUIREMENTS AND SIMULATE	D ABNORMAL CONDITIONS	ation of P
5.1	Touch current and protective conductor curren	t Same	N
5.1.1	General	-CO P	N
5.1.2	Equipment under test (EUT)		N
5.1.2.1	Single connection to an a.c. mains supply	The Comment of the Co	N. Salaha
5.1.2.2	Redundant multiple connections to an a.c. mains supply	CC TO	N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		M N
5.1.3	Test circuit	(a) The state of t	N
5.1.4	Application of measuring instrument	CO - CO	N
5.1.5	Test procedure	ini	N



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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
5.1.6	Test measurements	CO CO	CN
Compliant	Test voltage (V)		N
® Allesta	Measured touch current (mA)		N N
30	Max. allowed touch current (mA)	Burne II Commence	on of Glow N
~枪	Measured protective conductor current (mA):	See	N
Son of Global Co.	Max. allowed protective conductor current (mA) .:	GO	N
5.1.7	Equipment with touch current exceeding 3.5 mA:	111	N _
5.1.7.1	General	T. T	N
5.1.7.2	Simultaneous multiple connections to the supply	Marine C	N
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks	LG WILLIAM TO IT	M N
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system	CC MARKET CC MARKET CO	N
® 4	Test voltage (V)		N®
60 F	Measured touch current (mA)		N N
	Max. allowed touch current (mA)	C Manufacture C C T	N
5.1.8.2	Summation of touch currents from telecommunication networks	100	N
astatu	a)EUT with earthed telecommunication ports:	The state of the s	Marros N
	b)EUT whose telecommunication ports have no reference to protective earth	SETTO de Comment Comme	N

5.2	Electric strength				Till	Th NE ompliand
5.2.1	General	TILL:		Class III equipment	ompliance ®	N
5.2.2	Test procedure	The Homelane	® # Horo	Slopal (Cic.	~ CO "	N

5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	C PART
5.3.2	Motors		N
5.3.3	Transformers	No transformers	N Mir
5.3.4	Functional insulation	See appended table 5.3. Complies with c)	P
5.3.5	Electromechanical components	E Miller C. C.	N
5.3.6	Audio amplifiers in ITE:	100	N



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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
5.3.7	Simulation of faults	Result see appended table 5.3.	Р	
5.3.8	Unattended equipment		N	
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	P. P. Complian	
5.3.9.1	During the tests	No hazards.	Р	
5.3.9.2	After the tests	No fire, no danger.	Р	

6	CONNECTION TO TELECOMMUNICATION NETWORKS	Nestation
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	N
6.1.1	Protection from hazardous voltages	₩ N
6.1.2	Separation of the telecommunication network from earth	N
6.1.2.1	Requirements	N
in in the second	Test voltage (V):	
® #	Current in the test circuit (mA):	
6.1.2.2	Exclusions:	N

6.2	Protection of equipment users from overvoltages on telecommunication networks		N
6.2.1	Separation requirements		N
6.2.2	Electric strength test procedure	The state of the s	N
6.2.2.1	Impulse test	(S) Affic and clother (C) Afficiation (C) Afficiation (C)	N
6.2.2.2	Steady-state test	No insulation breakdown	N
6.2.2.3	Compliance criteria	Compliance	N

6.3	Protection of the telecommunication wiring system from overheating		N
KEL Marce	Max. output current (A)	CC **	
balCons	Current limiting method:		

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS	S Front Colored @ Manager and Good	N
7.1	General		N
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	O M. T. A.	ill N
7.3	Protection of equipment users from overvoltages on the cable distribution system	30 PGO	N



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Clause	Requirement – Test	Result – Remark	Verdict
7.4	Insulation between primary circuits and cable distribution systems	CC CC	N
7.4.1	General		N
7.4.2	Voltage surge test	A. 11 (A. 11)	on of Goo N
7.4.3	Impulse test	Service Committee Committe	N

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Clause	Requirement – Test	Result – Remark	Verdict
A 111	ANNEX A, TESTS FOR RESISTANCE TO HEAT	T AND FIRE	N
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		
A.1.1	Samples		
3.1Z.	Wall thickness (mm)	Sound Committee (S. Martin and Committee C. C. St.	
A.1.2	Conditioning of samples; temperature (°C)	CO ***	N
A.1.3	Mounting of samples		N
A.1.4	Test flame (see IEC 60695-11-3)	不 地	O N
	Flame A, B, C or D	· O # John Column O # John Column O W	
A.1.5	Test procedure		N
A.1.6	Compliance criteria	701	₩ N
9	Sample 1 burning time (s)	The transfer of the	
	Sample 2 burning time (s)	(a) The state of t	
1411 - 14	Sample 3 burning time (s)		
A.2 0 4	Flammability test for fire enclosures of movable e exceeding 18 kg, and for material and component 4.7.3.2 and 4.7.3.4)		N 10 Th
A.2.1	Samples, material	Endough CO	
The Market	Wall thickness (mm)		
A.2.2	Conditioning of samples	in k	N M
A.2.3	Mounting of samples	The Compliance Of the Age of Calcular	N
A.2.4	Test flame (see IEC 60695-11-4)	® ####	N
	Flame A, B or C		
A.2.5	Test procedure	-111	N
A.2.6	Compliance criteria	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
	Sample 1 burning time (s)	S Service CO	
Kin plance	Sample 2 burning time (s)	- GO E	
381	Sample 3 burning time (s)	: 100	
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8	S. A. T. Condition of the state	N
IK Y	Sample 1 burning time (s)	C - CO D	
The Hallon of Global	Sample 2 burning time (s)	-ml	
Allee	Sample 3 burning time (s)	. 5	
A.3	Hot flaming oil test (see 4.6.2)	one @ Management of the state o	N
A.3.1	Mounting of samples	- CO - CO	N
A.3.2	Test procedure	lin:	N



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	EN 60950-1				
Clause	Requirement – Test		Result – Remark		Verdict
A.3.3	Compliance criterion	OF Foldows Compa	GG AME	20 m	N

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 5.3.2)	e 4.7.2.2 and N
B.1	General requirements	C N N
F Global Co	Position:	
Attestation C.	Manufacturer:	
\C	Type:	The talk princes
	Rated values:	® American of Garage
B.2	Test conditions	N
B.3	Maximum temperatures	₩ N
B.4	Running overload test	The company N
B.5	Locked-rotor overload test	N Sittle cutton N
Allance	Test duration (days):	-
© 4	Electric strength test: test voltage (V):	
B.6	Running overload test for d.c. motors in secondary circuits	The state of the s
B.6.1	General	N
B.6.2	Test procedure	N N
B.6.3	Alternative test procedure	The Manustrus N
B.6.4	Electric strength test; test voltage (V)	® Martin de Caron No Martin
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	O N
B.7.1	Test procedure	N w
B.7.2	Alternative test procedure; test time (h):	A TIN COMMON
B.7.3	Electric strength test	The company of the state of the
B.8	Test for motors with capacitors	N
B.9	Test for three-phase motors	N
B.10	Test for series motors	N F
	Operating voltage (V):	What con

C F Thomas	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N
Attestation	Position	No transformers	
	Manufacturer	and San	
- 700	Type:	-C	
Compliance	Rated values:		



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Clause	Requirement – Test	Result – Remark	Verdict
TIME THE	Method of protection	60 60	
C.1	Overload test		N
C.2	Insulation		Nonoliana Nonoliana
5	Protection from displacement of windings:	K British K K Company	Surface N

D F Global Co	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)				
D.1	Measuring instrument		-100		N A
D.2	Alternative measuring instrument		The Kingliance	The Colonia Committee	N _{Allestation} &

E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	N
---	---	---

F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES				
	(see 2.10)				

G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N
G.1	Clearances	The There is a second of the s	F N
G.1.1	General	Education C. State and C. C.	Allesta N
G.1.2	Summary of the procedure for determining minimum clearances	NG NG	N
G.2	Determination of mains transient voltage (V):	T. T.	ompliance N
G.2.1	AC mains supply	Stand Comment	N A
G.2.2	DC mains supply	C Marketine	N
G.2.3	Unearthed DC mains supply:		N A
G.2.4	Battery operation:	W 20 M	IN Compilar
G.3	Determination of telecommunication network transient voltage (V):	The state of the s	final phonon N
G.4	Determination of required withstand voltage (V) .:		N
G.4.1	Mains transients and internal repetitive peaks:		N
G.4.2	Transients from telecommunication networks:	The Samuel The Samuel	Namestation
G.4.3	Combination of transients	® # Addition of Good State of State of the Control of State of the Control of State of the Control of the Contr	N
G.4.4	Transients from cable distribution systems	7 60 6	N
G.5	Measurement of transient levels (V):	110	N N
	a) Transients from a mains supply	III	o ^{ol Co}
711	For an a.c. mains supply	C 3 - C 1	N
A Sublance	For a d.c. mains supply	-CO 10	N
® 4	b) Transients from a telecommunication network	4 111	N. W.

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Ol	EN 60950-1	Dec II Decemb	N/am/Pa/
Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clearances:	60 60	N
(6) <u>ee</u>	a fraction of the contract of		1
H	ANNEX H, IONIZING RADIATION (see 4.3.13)		EN Normal
	Th. Manufactor	The Bendance The Company (8)	Hestation of Children
J	ANNEX J, TABLE OF ELECTROCHEMICAL POT	FENTIALS (see 2.6.5.6)	N
aution of Global	Metal used	- CO	
Yilles	C	111 点型	2
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	d 5.3.7)	N
K.1	Making and breaking capacity	(a) All the state of the state	N
K.2	Thermostat reliability; operating voltage (V):		N
K.3	Thermostat endurance test; operating voltage (V)	· · · · · · · · · · · · · · · · · · ·	N
K.4	Temperature limiter endurance; operating voltage (V)		N
K.5	Thermal cut-out reliability	10 30	N
K.6	Stability of operation	-ill EK Complaine	Ń
0	地 地	The Completion Same and Completion of Comple	3) The station of Glow
L Tright	ANNEX L, NORMAL LOAD CONDITIONS FOR S BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)	OME TYPES OF ELECTRICAL	Р
L.1	Typewriters	-111	N
L.2	Adding machines and cash registers	The Secondaries and The Secondaries	N a
L.3	Erasers	© A Thomas C Files	N
L.4	Pencil sharpeners		N
L.5	Duplicators and copy machines		N
L.6	Motor-operated files	· 我们	N
L.7	Other business equipment	Scientific (S. S. Julin et Co.	Р
Kinglance .	OF THE STATE OF TH	30	
M	ANNEX M, CRITERIA FOR TELEPHONE RINGIN	IG SIGNALS (see 2.3.1)	N
M.1	Introduction	The Companies The Management of the Companies	N
M.2	Method A	© # Antion of Goods O	N
M.3	Method B	7 100	N
M.3.1	Ringing signal	311	N
M.3.1.1	Frequency (Hz):	AND The Transfer of the Company of t	(A)
M.3.1.2	Voltage (V)	And the state of t	
M.3.1.3	Cadence; time (s), voltage (V):		



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Clause	Requirement – Test	Result – Remark	Verdict	
M.3.2	Tripping device and monitoring voltage:	. CO " CO "	N	
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	FIG. 15	N ill	
M.3.2.2	Tripping device	A THE STATE OF	Zono Co N	
M.3.2.3	Monitoring voltage (V):	And come of the state of the st	N	

N	ANNEX N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)			
N.1	ITU-T impulse test generators	(S) A state of colonie	N	
N.2	IEC 60065 impulse test generator	C. S. C. S.	N	

P	ANNEX P, NORMATIVE REFERENCES	The July	The Compliance P

Q	ANNEX Q, Voltage dependent resistors (VDRS)	(see 1.5.9.1)	N
ompliano	-Preferred climatic categories:		N
-0	-Maximum continuous voltage:	THE TECHNISTS	N
0	-Combination pulse current:	The Compliance @ Management Com	N Attestation N
不	Body of the VDR Test according to IEC 60695- 11-5	NGO NGO	N
itestation of	Body of the VDR. Flammability class of material (min V-1):	10000000000000000000000000000000000000	bal Compliance N

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR PROGRAMMES	OR QUALITY CONTROL	N 4
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)	下拉那	N Compilar
R.2	Reduced clearances (see 2.10.3)	dicionary & Martingary	N C

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N N		
S.1	Test equipment	litt:	元	I Tropiance	N Attended
S.2	Test procedure	The Compliance	@ # Glation of Glos	Attestation of Attestation of the Attestation of th	N
S.3	Examples of waveforms during	ng impulse testing	0	Co	N

Т	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER				N N	
	(see 1.1.2)	Kinglance Compliance	The Compliant	® Marketon of Grand	Altestation Altestation	



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Clause	Requirement – Test Result – Remark	Verdict
U 7/11 St. Compilance	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEMENT INSULATION (see 2.10.5.4)	AVED N
® \$5	So Co	
v C	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	S S S S S S S S S S S S S S S S S S S
V.1	Introduction	N N
V.2	TN power distribution systems	N
inestation of		llii:
W	ANNEX W, SUMMATION OF TOUCH CURRENTS	The Management of the National State of the
W.1	Touch current from electronic circuits	on of Cook
W.1.2	Earthed circuits	N
W.2	Interconnection of several equipments	N
W.2.1	Isolation	N N
W.2.2	Common return, isolated from earth	N N
W.2.3	Common return, connected to protective earth	N
(B) A	EC M	100
x-G	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (sec.1)	e clause N
X.1	Determination of maximum input current	N
X.2	Overload test procedure	N
estallo		The Compliance
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	® ## station of Glove N
Y.1	Test apparatus:	N
Y.2	Mounting of test samples:	N
Y.3	Carbon-arc light-exposure apparatus:	N N
Y.4	Xenon-arc light exposure apparatus:	N
-1111	The towns of the state of the s	100
Z	ANNEX Z, OVERVOLTAGE CATEGORIES(see2.10.3.2 and Clause G.2)	N
~6		A TOP OF THE PROPERTY OF THE P
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N N
	A THE REPORT OF THE PARTY OF TH	
BB	ANNEX BB, CHANGES IN THE SECOND EDITION	
Attestation		e EK Parallonce
CC	ANNEX CC, Evaluation of integrated circuit (IC) circuit limiters	® Age along N
CC.1	General	N
CC.2	Test program 1:	N



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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
CC.3	Test program 2	GC	N		
CC.4	Test program 3		N		
CC.5	Compliance		N		

DD 🚜	ANNEX DD, requirements for the mounting means of rack-mounted equipment		
DD.1	General	300	N
DD.2	Mechanical strength test, variable N:		N N
DD.3	Mechanical strength test, 250N, including end stops:	O M. To a condition of the condition of	N
DD.4	Compliance:	3 60	N

EE	ANNEX EE, Household and home/office documents	media shredders	N
EE.1	General	3 Medition of Comments of the	N
EE.2	Marking and instructions	30	N
® 4	Use of markings or symbols:		N
CC	Information of user instructions, maintenance and/or servicing instructions:	A SECONDARIO O SECONDARIO O S.	N
EE.3	Compliance:	.00	N
EE.4	Disconnection of power to hazardous moving parts:		N
	Use of markings or symbols:	The templation (a) The templation (b) The templation (c) The templatio	N
EE.5	Protection against hazardous moving parts	The sum of the second s	N
(R) ##4	Test with test finger (figure 2A):		N
- C	Test with wedge probe (figure EE1 and EE2):	Till.	N



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				EN 60950-1			
Clause	Requirem	nent – Test			Res	ult – Remark	Verdict
, 🧌 EN	60950-1:20	006/A11:2009/A	1:2010/A12:2	2011/A2:2013 – 0	CENELEC CO	MMON MODIFICAT	IONS
bal Complian		subclauses, no 0-1 and it's am		nd figures which a prefixed "Z"	are additional t	o those in	
Contents (A2:2013)	Annex ZE	(normative)	Normative ref corresponding Special natio	erences to intern g European publi nal conditions IELEC code desi	cations		F. P
General		the —countrylly to the followin		reference docum	ent (IEC 6095	0-1:2005)	PF
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	G "
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	
	2.2.3	Note	2.2.4	Note	2.3.2	Note	1111 S
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	Compilar
	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	大枝
	4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1	Figure of Global Con
	6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note	Allesta
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	- 100 m
	G.2.1	Note 2	Annex H	Note 2			Compiliar (S)
General (A1:2010)		the "country" r		eference docume	nt (IEC 60950-	1:2005/A1:2010)	CP M
	1.5.7.1	Note		6.1.2.1	Note 2		· · · · · · · · · · · · · · · · · · ·
C Mes	6.2.2.1	Note 2		EE.3	Note	1.0005/46.0010	The Tomphas
General (A2:2013)	according 2.7.1 6.2.2.	g to the followin Note * Note	g list:	2.10.3.1 Modification remains	Note 2	1:2005/A2:2013)	P
1.1.1 (A1:2010)	Replace to NOTE 3 To multimedia	the text of NOT he requirements	E 3 by the fol of EN 60065 m IEC Guide 11		meet safety red	quirements for	3C ***

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure	CC 1	Р
	The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones.	Entrand Constitution CO	The state of the s
	NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.		
A12:2011)	In EN 60950-1:2006/A12:2011	700	
	Delete the addition of 1.3.Z1 / EN 60950-1:2006		P
C MIC	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	A A Compliant	* Clopal Con
1.5.1 (Added info*)	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC. New Directive 2011/65/11 *	C A CC	N
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.	-C # **	N The second sec
1.7.2.1 (A12.2011)	In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.	THE THE REAL PROPERTY OF THE PARTY OF THE PA	P. P.
	Zx Protection against excessive sound pressure from person	nal music players	
	Zx.1 General This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players. A personal music player is a portable equipment for personal use, that:		S N
	 is designed to allow the user to listen to recorded or broadcast sound or video; and primarily uses headphones or earphones that can be worn in or on or around the ears; allows the user to walk around while in use. 	To the state of th	K



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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
bol Compliance	NOTE 1 Examples are hand-held or body-worn portable Complayers, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.		N
	A personal music player and earphones or headphones intended to be used with personal music players shall cowith the requirements of this sub-clause.		Find the Company of Co
	The requirements in this sub-clause are valid for music video mode only.	or	
	The requirements do not apply: - while the personal music player is connected to an extra amplifier; or - while the headphones or earphones are not used. NOTE 2 An external amplifier is an amplifier which is not put the personal music player or the listening device, but which intended to play the music as a standalone music player.	art of	
	The requirements do not apply to: hearing aid equipment and professional equipment; NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. - analogue personal music players (personal music play without any kind of digital processing of the sound s that are brought to the market before the end of 201 NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within	yers ignal) 5.	A STATE OF THE STA
	years it will no longer exist. This exemption will not be exte other technologies. For equipment which is clearly designed or intended for young children, the limits of EN 71-1 apply.	ended to	GC F
CC F	Zx.2 Equipment requirements No safety provision is required for equipment that compl with the following:	ompany of Global Co	The state of the s
	 equipment provided as a package (personal music p with its listening device), where the acoustic output L is ≤ 85 dBA measured while playing the fixed "progra simulation noise" as described in EN 50332-1; and 	_Aeq,T amme	@ gt. ¹³
	 a personal music player provided with an analogue ele- output socket for a listening device, where the electroutput is ≤ 27 mV measured as described in EN 503 while playing the fixed "programme simulation noise" described in EN 50332-1. 	ical 32-2,	GC Marie
	NOTE 1 Wherever the term acoustic output is used in this the 30 s A-weighted equivalent sound pressure level LAequent. See also Zx.5 and Annex Zx.		To The Paris



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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
GC *	All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is	AGC I	N AND AND COMMENTS
	switched off; and c) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic	A Second	NG MARKET
	output exceeding those mentioned above. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and NOTE 2 Examples of means include visual or audible signals. Action from the user is always required. NOTE 3 The 20 h listening time is the accumulative listening time,	GC Marine D	A James C
	 independent how often and how long the personal music player has been switched off. d) have a warning as specified in Zx.3; and e) not exceed the following: 	NGC THE	NGC W. T.
	1) equipment provided as a package (player with Its listening device), the acoustic output shall be ≤ 100 dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and 2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be ≤ 150 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1.		The state of the s
	For music where the average sound pressure (long term LAeq,T) measured over the duration of the song is lower than the average produced by the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. In this case T becomes the duration of the song. NOTE 4 Classical music typically has an average sound pressure	A The state of the	
	(long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA.		GG
	For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 65 dBA, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.	The state of the s	EK Conductor



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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	Zx.3 Warning The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: - the symbol of Figure 1 with a minimum height of 5 mm; and - the following wording, or similar:	AGC Face of the state of the st	N N
	"To prevent possible hearing damage, do not listen at high volume levels for long periods."	All Second Secon	
GC F	Figure 1 – Warning label (IEC 60417-6044) Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.	GC THE D	T. T
	Zx.4 Requirements for listening devices (headphones and	earphones)	N
GC TANK	Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control).		N :
	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	在 测	about Centiliance
GC F	Zx.4.2 Wired listening devices with digital input With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.	AGG Francisco	GN N
	This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.).	A A A A A A A A A A A A A A A A A A A	No.
	NOTE An example of a wired listening device with digital input is a USB headphone.	majorice (S. A. Landon de Coloni Complaint	C Allested



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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	 Zx.4.3 Wireless listening devices In wireless mode: with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA. 		N N N N N N N N N N N N N N N N N N N
· ·	NOTE An example of a wireless listening device is a Bluetooth headphone.		igill)
	Zx.5 Measurement methods Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s.	S. C. S.	N
Compilar ®	NOTE Test method for wireless equipment provided without listening device should be defined.	根拠	红梅.
2.7.1	Replace the subclause as follows: Basic requirements To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):		N N
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;	GC Manufacture	GC *
GC	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	To The State of th	The state of contrast
	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	Till the state of	0 N
A Restaurand Colons	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	SO E	K Committee
2.7.2	This subclause has been declared 'void'.	Setan.	N
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	100	N



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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".	PCC .	30
	In Table 3B, replace the first four lines by the following:	TIME:	The Man Compliant
	Up to and including 6 0,75 a)	The Memoriance (8)	tation of Glo
	Over 6 up to and including 10 (0,75) b) 1,0	The station of colour	N
	Over 10 up to and including 16 (1,0) c) 1,5	Anes	
	In the conditions applicable to Table 3B delete the words "in some countries" in condition ^{a)} .		
	In NOTE 1, applicable to Table 3B, delete the second sentence.	Harris (S. See First of Complete	C Allestation of
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD	GC ·	N
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:	不 地 测	Tompiones N
	Over 10 up to and including 16 1,5 to 2,5 1,5 to 4	For clobal Co. 8 Francisco of Co.	IN C
	Delete the fifth line: conductor sizes for 13 to 16 A	Aller C Aller	
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following:		37
(711.2010)	NOTE Z1 Attention is drawn to:	A STOREGO	TK KE mali
GC A	1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and	® American d calcul com	Massachur de Godon
	2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation).		11 THE
	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	C.C.	S N
Annex H	Replace the last paragraph of this annex by:		
GC ***	At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 μSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.	The the times of times of the t	N _
	Replace the notes as follows:	Attestation of	
	NOTE These values appear in Directive 96/29/Euratom.		
	Delete NOTE 2.	The sail	
Bibliography	Additional EN standards.	The state of the s	® g

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR	
# 1 Glo	CORRESPONDING EUROPEAN PUBLICATIONS	_

EN 60950-1				
Clause	Requirement – Test		Result – Remark	Verdict
ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			:111	

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Attestation of Global Compliance



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EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict		
视	ZB ANNEX (normative) SPECIAL NATIONAL COND	DITIONS (EN)	60		
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N THE THE PARTY OF		
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.	E Franciscon Colonicon	N N		
1.5.7.1	In Finland, Norway and Sweden , resisters bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resister is used, the resister must withstand the resister test in 1.5.7.2.	A The state of the	N C		
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	SO D	N		
1.5.9.4	In Finland , Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N		
1.7.2.1	In Finland , Norway and Sweden , CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.	C Marie San Alexander	N =		
	The marking text in the applicable countries shall be as follows: In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	CO Marino			
	In Norway: "Apparatet må tilkoples jordet stikkontakt"	NO.			
1.7.2.1 (A11:2009)	In Sweden: "Apparaten skall anslutas till jordat uttag" In Norway and Sweden , the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.		N N		
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.	CO TO E	CC TO		
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	T. T. B. M.	K. Comming		
	The state of the s				

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
15 July 1	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	60
	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."	E THE THE THE THE THE THE THE THE THE TH	N interest in the second
	NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be		
	accepted in Norway): "Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet."	A COMPANIES OF THE PARTY OF THE	NO
	Translation to Swedish: "Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät alvanisk isolator finnas mellan utrustningen och kabel-TV nätet."		S THE TOWN COMMON TOWN
.7.2.1 A2:2013)	In Denmark , CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text in Denmark shall be as follows: In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."	NGC NO.	CN A TO A T
.7.5	In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a. For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	GC Financial Control of the Control	S N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
- FILL	ZB ANNEX (normative) SPECIAL NATIONAL CON	DITIONS (EN)	60
1.7.5 (A2:2013)	In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2-D1:2011. For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception for STATIONARY EQUIPMENT where the socket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a. Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b. Justification the Heavy Current Regulations, 6c		N M
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	For a Clobal Completion of	Souther Southern N
2.3.2	In Finland , Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	NGO	N
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	® # John of Clobal Commission	® Alexandro d N
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.	C CC	N
2.7.1	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	AGC # # #	N
2.10.5.13	In Finland , Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	THE THE CO	N



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Clause	Requirement – Test	Result – Remark	Verdict
ALL SALE	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	30
3.2.1.1	In Switzerland , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998: SEV 5932-2.1998: Plug Type 25, 3L+N+PE 230/400 V, 16 A SEV 5933-2.1998: Plug Type 21, L+N, 250 V, 16A		
0.0.1.1	SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A	The Property of the Park of th	Sopal Compiles
3.2.1.1	In Denmark , supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		N A THE STATE OF COLUMN COM
	If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.	A THE STREET OF STREET	
3.2.1.1	In Spain , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.	No	N N
	Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.	E THE STATE OF THE	All audience
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.	THE STATE OF THE PARTY OF THE P	
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	GO I	in)

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
WEL THE	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	60
3.2.1.1	In the United Kingdom , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.	A The state of the	N N
	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	AMERICA STATE OF THE STATE OF T	(8) Allestolore
3.2.1.1	In Ireland , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.		N N
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.		N
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.	S. F. of Cultural Computers	N Tompi
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is:	C NGC	N
Attestation	• 1,25 mm² to 1,5 mm² nominal cross-sectional area.	7.5	W misnos
4.3.6	In the United Kingdom , the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	AGC Marine	S C
4.3.6	In Ireland, DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.	THE	N S S S S S S S S S S S S S S S S S S S



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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
AND THE	ZB ANNEX (normative) SPECIAL NATIONAL CON	DITIONS (EN)	GU
5.1.7.1	In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and	A State of the later of the lat	N M
	has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.		C The state of the
6.1.2.1 (A1:2010)	In Finland , Norway and Sweden , add the following text between the first and second paragraph of the compliance clause:	The state of the s	N C
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	Co	
	 - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. 	C Tarton Co	S A STATE OF COMM COMM
	Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		



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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
ALT THE	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	GU
CC #	- passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and - is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.	A The state of Company	N N
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	All Indiana	® ## Financial
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	(a) Allestation of Good	GO "
	- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1;	F. Francisco	A James Commence
	- the additional testing shall be performed on all the test specimens as described in EN 60384-14:	-GC	NO.
	- the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	The the state of t	The standard Complete
6.1.2.2	In Finland, Norway and Sweden, the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the		N N
7.2	installation of that conductor by a SERVICE PERSON. In Finland, Norway and Sweden, for requirements see		N. W
	6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	T. T. A. T. A. T. A. T. C. C.	The state of the s
7.3	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	Amesia	N
7.3	In Norway , for installation conditions see EN 60728-11:2005.	litte a litter	N



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1.5.1	TABLE: list of critical compon	ents			ompliance P
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Battery	Interchangeable	CR2430 CR2450 CR2477	DC3.0V,An Interchangeable L ithium chemistry button cell used	A Committee	Tested with appliance
PCB	Interchangeable	Interchangeable	V-0, 130°C	UL94, UL796	UL ZPMV2
Enclosure	CHI MEI CORPORATION	PC-110(+)	Min. 1.5mm, V-2, 125°C	UL94	UL E56070
Alternative	Interchangeable	Interchangeable	Min. 0.7mm, HB or better, 80°C or better	UL94	UL QMFZ2
Note(s):	The second secon	3 Manufaction of what Comm	better	Alloso	QMFZ2

1.6.2	TABLE: e	lectrical data (in normal cor	nditions)	mpliance @	e alternation P
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status
3.0	0.012	C Miles	0.036	Attesu		Normal operation
Note(s):	ttestation	C		:1111		The Continue of The Lord

2.1.1.5c)1) TABLE: r	nax. V, A, VA test	nol G Alfestation	Co N	N
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
1 500		TIM	The state of the s	E Kilobal Complian ® # Find
Note(s):	1000000	OF FACODAL COMP. OF THE PARTY O	de Cooper	attori

2.1.1.5c)2)	TABLE: stored e	energy			lline	N
Capacitance	e C (µF)		Voltage U (V)		E	nergy E (J)
	不懂。	The Thomas	ence (ence	(Gobal Calandary)	- C-	J (G)
Note(s):	® Fration of Globe	(a) Milestation of C	66	7.GO		

2.2	TABLE: evaluation of voltage limiting com	ponents in SELV circ	cuits	N
Component (measured between)		max. voltage (V)	(normal operation)	Voltage Limiting
Componen	(measured between)	Vpeak	Vd.c.	Components
Allesto	- NO	-111	K Complance	The state of the s
Fault test p	erformed on voltage limiting components	Voltage measure	d (V) in SELV circuits	s (V peak or V d.c.)
極調	The state of the s	gas on of Close	-60	
Note(s):	CO CO		VA.	

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2.5	TABLE: limited power source measu	rement	® # Janon of Cit	(8) Age Julion of Clobal C	N # strong	
Measured U	oc (V) with all load circuits	Isc (A	٨)	VA	VA	
disconnected	d:	Meas.	Limit	Meas.	Limit	
Note(s):		The templane	5 proprience	Clobal Compiles (8)	itestation of	

2.10.2	TABLE: Working voltage measurement N					
Location		RMS voltage (V)	Peak voltage (V)	Com	nents	
	111	- H	@ # 3th alconv	Lation of Global	-C	
Note(s):	F. Hood Commen	Cologa Compiles @ # 100 d Copa Com	20 M	and a second		

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements					ance Santa (City	N (S)
Clearance cl distance dcr	and creepage at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)
Plopal Con.	Separio de Como	C	9			M	- Kingliance
Note(s):				10 FM		F of Global Compile	The state of Global Co

2.10.5 TABLE: distance through insulation measurements						
Distance through insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)		
Note(s):	C Francisco	Attree	O	0		

4.3.8	TABLE: Batte	eries							F The Committee
The tests of not available	4.3.8 are appli	cable only v	vhen approp	oriate batter	y data is	© Mestation	Clopal Comp	3C	N C
Is it possible	to install the b	attery in a r	everse pola	rity position	?	No damag	e and haza	ards.	Р
Non-rechargeable batteries						Rechargeab	le batteries	6	
	Disch	scharging Uninten-		Cha	Charging Discharg		arging	Revers	e Charging
玉	Meas. current	Manuf. Specs.	tional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf.S pecs.	Meas. current	Manuf. Specs.
Max. currer during norm condition			· · · · · · · · · · · · · · · · · · ·		Williams.	IN	A Compliance	F. or Globa	-C
Max. currer during faul condition	1/200001001	3G	on of Clobal Con	© Freddon d coo	LG.	J	SG.		

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Test results:	100		1	The Compliance	下 检	Verdict
- Chemical leaks	五 位	The state of the s	uce M	® ## Globa	3 Figure of Global C	[®] P _{Allestol}
- Explosion of the battery	® Station of Globar	® # Jation of Global Co	(G)	CCC		Р
- Emission of flame or expuls	ion of molten met	al				P
- Electric strength tests of eq	uipment after com	pletion of tests	ALL THE	不 拉加斯	() (E) (E)	on of Global N
Note(s):	- TIII (8) 15%	Ford Cloral Committee	JA of Global Committee	® # Jation of Clobar Car	CC Allowa	~G

4.3.8	TABLE: Batteries	CO YOU I	Р
Battery ca	ategory		® # challon of
Manufact	urer	······································	,G
Type/mod	del	CR2430, CR2450, CR2477	
Voltage, 0	Capacity	DC 3.0V	KE Jianes
Circuit pro	otection diagram	A	a.C
N/A	10 TK 10 Com	# 3 de de la company de la com	
MARKING	GS AND INSTRUCTIONS (1.7.13)		Till .
Location	of replaceable battery	Refer to clause 1.7.13	The Complian
Language	e(s)	: Ditto	Station of Globa
Close to t	he battery	Ditto	A.
In the ser	vicing instructions	Ditto	.0
In the ope	erating instructions	Ditto	This was
Note(s):		The state of the s	® 震 3

4.5	TABLE: maximum t	emperature	S Alleste					Р
	Test voltage (V)	Test voltage (V)						
	town a return T of mort/	4.			Т ((°C)		allowed
maximum	temperature T of part/a	at:		a))			Tmax (°C)
Battery	® # John of Global		42.7		+	Ref.		
PCB near U1				44.6		7	130	
Internal e	nclosure			42.	42.7		blance Chobal Compilar	
External e	enclosure	Ki Milance	环	41.	3	Attes	Allestation .	
Ambient	obal Complain	Slopa, ®	Attestation of G	40.	.0	9		
Tempo	erature T of winding	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation Class
		163	Jilli Jilli Jilli	TK-4/31	® @	ation of Global	@ ## estation of Gree	- F3C

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4.5.5	TABLE: ball pressure	e test of thermoplastic parts	The Condition	The state of the s
27711	allowed impression d	iameter (mm):	- C Metallor C	Alfastation of the state of the
Part			Test temperature(°C)	Impression diameter (mm)
	en de la constante de la const	, #\.	- W	- Kodod Compila
Note(s):	ilit: little	II Coolad Compiler	K Complaines	Alfestation

4.7	TABLE: Resistance to	fire			P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
	不 程 · · · · · · · · · · · · · · · · · ·	Williams IV Complains	@ # - Hillon of Clobs	® ## Deligion of C	JU

5.1	TABLE: touch current measurement	100	The Compliance of the Complian	® And OF N
Measured	between:	Measured(mA)	Limit(mA)	Comments/conditions
Compliance	The second of th	(:111
Note(s):			The little	The The Complete

5.2	TABLE: electi	ric strength tests ar	nd impulse tests	190 m	100	N
Test volta	ge applied betwe	en:		Test voltage (V)	Brea	akdown
Allesta	GO "	-	100	7 M	· 张	Tollance
Note(s):	:III)	AL THE	The Spanish of the State of the	(a) ## Frat clothal Comm	® Allestation of Com	Alfostallo

5.3	TABLE: fault condition tests ambient temperature (°C): rated markings of power supply:					P	
CO						24.3	
						® # Ford Column	
Component no.		Fault	Test voltage (V)	Test time	Fuse no.	Result	
Battery		Reverse		10min		Unit shutdown immediately. No hazards.	
R2	-1111	S-C	3.0	10min	® Filestation of	No damage and hazards.	
Fault: S-C=sh	nort cire	cuit 🔞 🚜 🖟 or of color	® Attestation of		30	700 h	
Note:		-G M	60				(1) 100° 00° 00° 00° 00° 00° 00° 00° 00° 00

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Attachment A Photos of product



Fig.1 – overview



Fig.2 – overview

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Fig.3 - overview

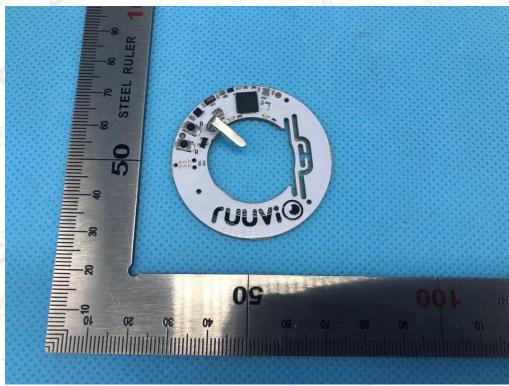


Fig.4 - overview

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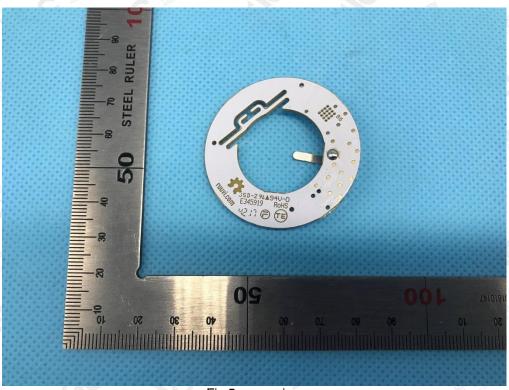


Fig.5 – overview

---- END OF REPORT----

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