TEST REPORT

Applicant	:	XI'AN LONN M&E EQUIPMENT CO., LTD.
Address	:	12th South of Chang'an Road, Yanta 710061, Xi'an, Shaanxi, CHINA

Report on the submitted sample said to be:

Sample name	:	Pressure Transmitter
Trade Name	:	LONN
Model	:	LONN-3PX, LONN-1TX, LONN-2SX, LONN-3X, LONN-4GX, LONN-5TX, LONN-6X, LONN-7FX, LONN-DI, LONN-K1X, LONN-LG, LONN-KG, LONN-SD, LONN-1ES, LONN-2ES, LONN-3ES, LONN-1EPS, LONN2EPS, LONN-3EPS, LONN-1VC, LONN-2VC, LONN-3VC, LONN-IC, LONN-2IC, LONN-3IC
Manufacturer	:	XI'AN LONN M&E EQUIPMENT CO., LTD.
Address	:	12th South of Chang'an Road, Yanta 710061, Xi'an, Shaanxi, CHINA
Test conclusion	:	Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs). Polybrominated diphenyl ethers (PBDEs), Bis (2-ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP), Di Iso Butyl Ortho Phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.
Testing period	:	Aug. 10, 2020 to Aug. 24, 2020
Date of report	:	Aug. 24, 2020

Testing Requested:	**Results**
Selected test(s) as requested by client	**Pass**

Prepared by: Jimi zhao — Jimi zhao

Examine By: Calvin Chen — Calvin Chen

Approved(Manager): Machael Mo — Machael Mo

SHENZHEN POCE TECHNOLOGY CO.,LTD. APPROVED

Testing method:

1. With reference to IEC 62321-1:2013, review was performed for the samples disjointed from the submitted articles submitted by the Applicant
2. Tests were performed for the samples indicated by the photos in the report with test methods reference to IEC 62321-1:2013, Procedures for the determination of Levels of Six regulated Substances in Electrotechnical Products

(1) With reference to IEC 62321-3-1:2013, Screening by XRF spectorscop

(2) Wet Chemical Test Method

a. With reference to IEC 62321-5:2013, Determination of Lead &Cadmium by ICP-OES or AAS
b. With reference to IEC 62321-4:2013+A1:2017, Determination of Mercury by ICP-OES
c. With reference to IEC 62321-7-1:2015, Determination of Hexavalent Chromium by Spot or Colorimetic Methodcd
d. With reference to IEC 62321-6:2015, Derermination of PBBs and PBDEs by GC-MS
e. With reference to IEC 62321-8:2017, determination of DEHP, DIBP, DBP and BBP by GC-MS

Note: The test results are related only to the tested items. The report shall note be reproduced excpt in full without the written approval of the testing laboratory.

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
1	Black plastic	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
2	Silver metal washer	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
3	Black soft plastic	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
4	Black plastic shell	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
5	Bolt	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
6	Black plastic	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
7	Silver metal (shell)	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
8	Silver metal (connection)	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
9	Yellow metal (nut)	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
10	Red plastic wire skin	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
11	Blue plastic wire skin	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
12	White plastic wire skin	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
13	Black plastic wire skin	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
14	Wire Core	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
15	Screw	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
16	PCB	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	IN	PBBs=ND PBDEs=ND	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
17	IC	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
18	SMD capacitor	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
19	SMD resistor	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
20	triode	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	

Part No.	Part Description	Restricted Substance	Results of EDXRF	Result of wet Chemical Testing (2mg/kg)	Conclusion on RoHS	Sample submitted/ Resubmitted Date
21	diode	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	
22	tin solder	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
23	Yellow metal	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	-	-	-	
		DEHP	-	-	-	
		BBP	-	-	-	
		DBP	-	-	-	
		DIBP	-	-	-	
24	Grey glue	Pb	BL	-	Comply	Aug. 24, 2020
		Cd	BL	-	Comply	
		Hg	BL	-	Comply	
		Cr(Ⅵ)	BL	-	Comply	
		Br	BL	-	Comply	
		DEHP	IN	ND	Comply	
		BBP	IN	ND	Comply	
		DBP	IN	ND	Comply	
		DIBP	IN	ND	Comply	

Remark:

(1) (a) It is the result on total Br while test item on restricted is PBBs\PBDEs. It is the result on total Cr6+ while test item on restricted substances is Cr^{6+}.

(b) Results are obtained by EDXRF for primary screening ,and further chemical testing by ICP(for Cd, Pb, Hg), UV-VIS(for Cr^{6+}) and GC\MS (for PBBs, PBDEs) is recommended to be performed , if the concentration exceeds the below warning value according to IEC62321(unit: mg\kg)

Element	Polymer	Metal	Composite Materals
Cd	BL≤（70-3σ）<X<(130+3σ) ≤OL	BL≤（70-3σ）<X<(130+3σ) ≤OL	LOD<X<(150+3σ) ≤OL
Pb	BL≤（700-3σ）<X<(1300+3σ) ≤OL	BL≤（700-3σ）<X<(1300+3σ) ≤OL	BL≤（500-3σ）<X<(1500+3σ) ≤OL
Hg	BL≤（700-3σ）<X<(1300+3σ) ≤OL	BL≤（700-3σ）<X<(1300+3σ) ≤OL	BL≤（500-3σ）<X<(1500+3σ) ≤OL
Br	BL≤（300-3σ）<X	--	BL≤（250-3σ）<X
Cr	BL≤（700-3σ）<X	BL≤（700-3σ）<X	BL≤（500-3σ）<X

(c)BL=Below Limit, OL=Over Limit, IN=Inconclusive, LOD=Limit of Detection,-=Not Regulated,

Negative = A negative test result indicated above p ositive observation was not found at the time of te sting. When the spot-test showed a negative result, the boiling-wat er-extraction procedure shall be used to verify the result.

(#1) = As claimed by the declaration submitted by t he client, the Lead content of the components is co ming from the constituent of ceramic part of the electronic c omponent only. According to EU RoHS Directive, Lead in electronic ceramic parts of this component can be exempted.

(d)The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of non-uniformity composition,

(2) (a) mg\kg=ppm=0.0001%, ND=Not Detected{<MDL)),

(b)Unit and Method Detection Limit(MDL)in wet chemical test

Test Items	Units	MDL	EU RoHS Limit
Pb	mg/kg	2	1000
Cd	mg/kg	2	100
Hg	mg/kg	2	1000
Cr(VI)	mg/kg	0.02 mg/50 cm^2(Metal)	1000
		2	
PBBs	mg/kg	5	1000
PBDEs	mg/kg	5	1000
DEHP	mg/kg	5	1000
BBP	mg/kg	5	1000
DBP	mg/kg	5	1000
DIBP	mg/kg	5	1000

(c) According to IEC 62321, result on Cr for metal sample is shown as Positive\Negative, Negative=Absence of Cr6+ costing, Positive=Prosence of Cr 6+ coating.

(d) ▲As declared by the client the materials fall into exemption items according to RoHS Directive 2011\65\EU recasting 2002\95\EC

Photograph of sample

POCE authenticate the photo on original report only

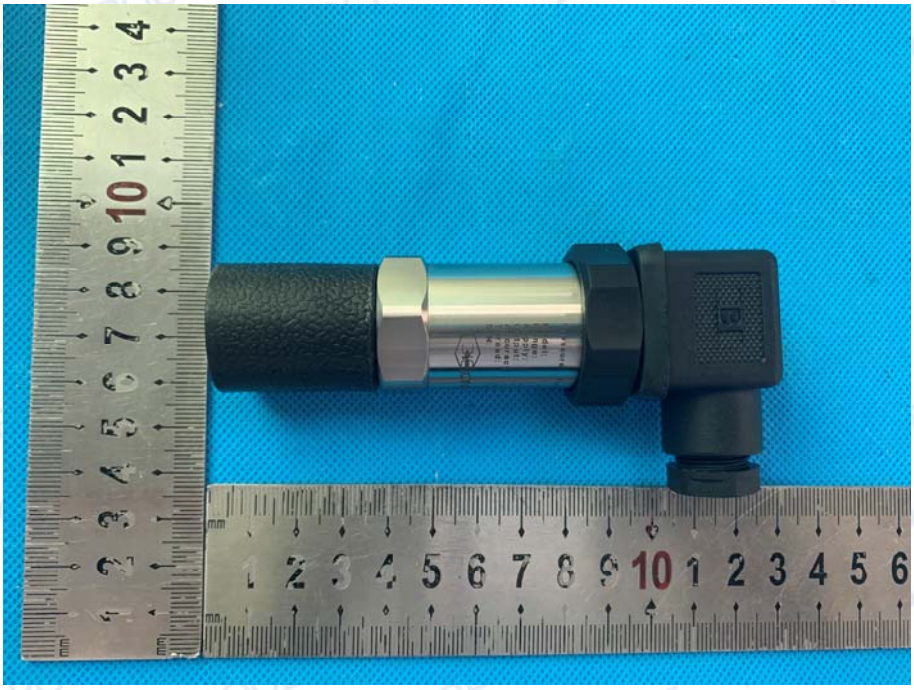


Photo 1



Photo 2

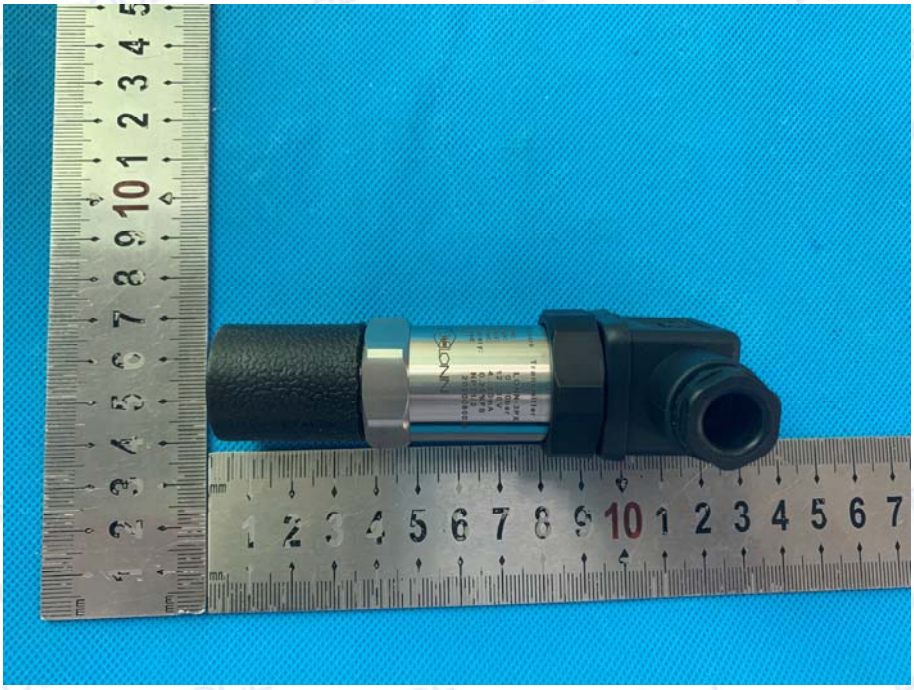


Photo 3



Photo 4



Photo 5

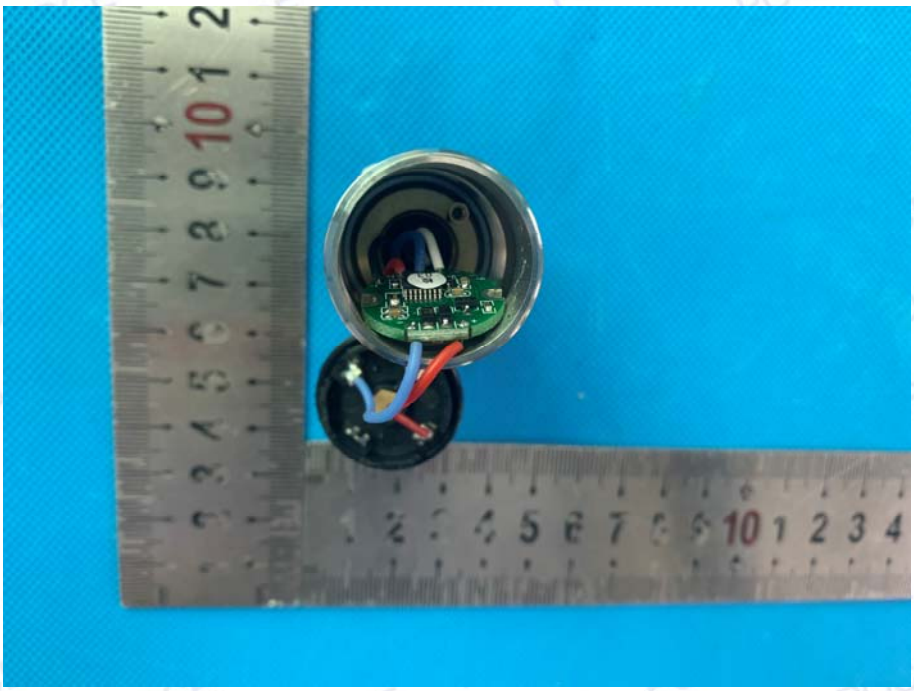


Photo 6

※※※※※END OF REPORT※※※※※