

Test Report No.: 48.400.23.1087.01-00/12

Rev.: 00

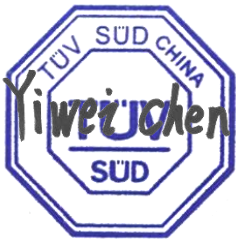
Dated: 2023-11-10



Applicant: Jiangsu Acrel Electrical Manufacturing. Co., Ltd.
Address: No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China
Attn: Han Zhonghua
Sample Description: Meter
Model No.: PZ
Sample Received Date: 2023-10-12
Test Period: 2023-10-12~2023-10-27
Test Location: TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch, SHA Chemical Lab.
Purpose of examination: Verification of RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendment (EU) 2015/863 on submitted samples
Test Results: Refer to following page(s)
Remark:
- The result relates only to the items tested.
- The reference model(s) was declared by client.
- The test sample(s) and item(s) was specified by client.

TÜV SÜD Certification and Testing (China) Co., Ltd.
TÜV SÜD Group
Prepared by:

Reviewed by:



Mr. Yiwei CHEN



Mr. Feng ZHANG

Disclaimer Measurement Uncertainty: Unless otherwise agreed upon, Pass or Fail verdicts are given base on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail. Any use for advertising purposes must be granted in writing. This test report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4.

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SUMMARY OF TEST RESULTS

No.	Test Requested	Conclusion	Remarks
1.	Heavy Metal (Pb, Cd, Hg and Cr VI) Content	PASS	
2.	Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content	PASS	
3.	Phthalates (DEHP, BBP, DBP and DIBP) Content	PASS	

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1. TESTED SUBJECT DESCRIPTION

Sample No.	Description (Material, colour)	Photograph/Location
01	Transparent soft plastic inflatable bag,CQD QT-13L237(96)(CQD-280*215-Q-01	
02	Brown paper packing box, B/ZH-170x150x125-J01(A)	
03	Green hard PCB,KB	
04	black resistance, CR_0603_0R_J	
05	black resistance, CR_0603_10k_F_100ppm	

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Sample No.	Description (Material, colour)	Photograph/Location
06	Brown capacitor,CC_0603_0.1uF_50V	
07	Brown capacitor,CC_0805_10uF_16V	
08	Black resistance, RZ_10P8_10k_J	
09	Golden diode,LL4148-SMD	
10	Black triode,9013	

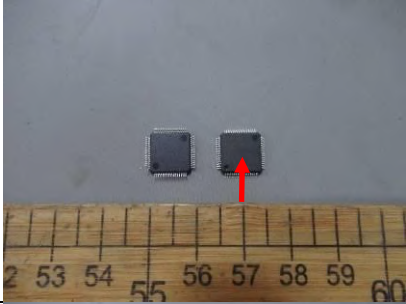
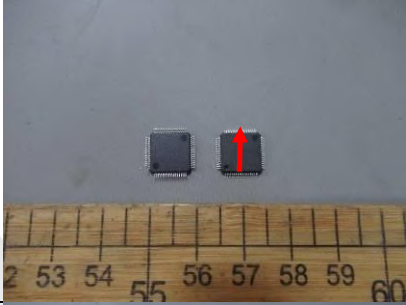


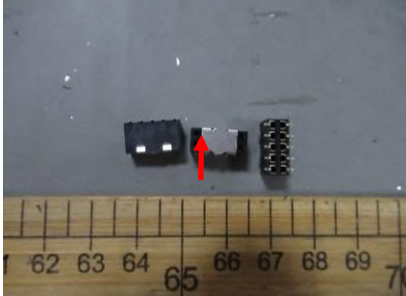


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Sample No.	Description (Material, colour)	Photograph/Location
11	Black hard IC,TLV70033DDCR	
12	Black hard IC,HT1621B/HOLTEK	
13	Silver metal pin	
14	Black hard IC,MB85RC16	
15	Silver metal pin	



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Sample No.	Description (Material, colour)	Photograph/Location
16	Black hard IC, STM32F401RCT6	
17	Silver metal pin	
18	Black hard IC, XN_3225_12MHz_20pF_20ppm	
19	Black hard plastic pai Mu, 22N8572-10M00B-01G-6.7-C	
20	Silver metal pin	



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Sample No.	Description (Material, colour)	Photograph/Location
21	Gray capacitor, CC_0603_2.2uF_25V	
22	Black metal magnetic beads, FB_0603_100mA_1k	
23	Black diode, BAV199LT1G	
24	Black hard IC, RN7302	
25	Silver metal pin	



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Sample No.	Description (Material, colour)	Photograph/Location
26	Silvery metal crystal oscillator, XN_SMD49_8.192MHz_20pF_20ppm	
27	Silver metal pin	
28	Black hard plastic cover	
29	Black triode, 8050-SMD	
30	Black diode, RS1D	



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Sample No.	Description (Material, colour)	Photograph/Location
31	Silver metal pin	
32	Black diode, SS310-SMD	
33	Black diode, SMAJ5.0A	
34	Silver metal pin	
35	Black hard IC, AMS431AM(BM)-SMD	



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Sample No.	Description (Material, colour)	Photograph/Location
36	Black hard IC, 78L05-SMD(KIA78L05)LM78L05F)	
37	Silver metal pin	
38	Black hard IC, ISL3152EIBZ-T	
39	Silver metal pin	
40	Black optocoupler, LTV-356T-B	



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Sample No.	Description (Material, colour)	Photograph/Location
41	Silver metal pin	
42	Silvery aluminum electrolytic capacitor, CD_6.3X7.7_100uF_35V	
43	Silver metal pin	
44	Gray soft plastic film	
45	Black rubber cushion	



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Sample No.	Description (Material, colour)	Photograph/Location
46	Silvery aluminum electrolytic capacitor, CD_6.3X7.7_220uF_16V	
47	Black rubber cushion	
48	Gray soft plastic film	
49	Silver metal pin	
50	Black bridge chip, DB107S	



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Sample No.	Description (Material, colour)	Photograph/Location
51	Silver metal pin	
52	Black inductance, PCD0503MT3R3(5.8*5.2*3 3.3μH 2.8A)(±20%)	
53	Black hard plastic current transformer, CT-E 5A:2.5mA	
54	Black hard plastic potting compound	
55	Silvery metal Iron core	



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Sample No.	Description (Material, colour)	Photograph/Location
56	White hard plastic frame	
57	Blue soft plastic adhesive tape	
58	Black hard power chip, TNY286PG	
59	Silver metal pin	
60	Gray hard plastic socket, BCH-508HS-12	



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Sample No.	Description (Material, colour)	Photograph/Location
61	Silver metal pin	
62	Green metal wave filter, 47µH/40mΩ	
63	Golden metal wire	
64	Translucent hard plastic plate	
65	Black hard plastic base	



Sample No.	Description (Material, colour)	Photograph/Location
66	Silver metal pin	
67	green resistance, RM-12D-55mA-正-±10%-220V-扁脚	
68	Silver metal pin	
69	Black metal magnet, EE16-51515-2	
70	Yellow soft plastic adhesive tape	

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Sample No.	Description (Material, colour)	Photograph/Location
71	Black hard plastic base	
72	Silver metal pin	
73	Golden metal wire	
74	Yellow soft plastic label	
75	Silvery soft plastic label	

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Sample No.	Description (Material, colour)	Photograph/Location
76	Black hard plastic bracket, 21B22564-10D10B-01G-6/3/1.5	
77	Silver metal pin	
78	Black hard plastic socket, BCH-508HF-10PZ+AMC	
79	Silver metal pin	
80	Golden copper alloy nut	



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Sample No.	Description (Material, colour)	Photograph/Location
81	Silvery metal bracket, 42S	
82	Silvery metal screw, M4*10	
83	Gray hard plastic plug, BCP-508-12	
84	Silvery metal screw	
85	Silvery copper alloy bracket	

Sample No.	Description (Material, colour)	Photograph/Location
86	Gray hard plastic plug, BCP-508F-10PZ	
87	Silvery metal screw	
88	Silvery copper alloy bracket	
89	Blue glass display, NSTN8524FLNT(DU)/T-3.3V(PZ96L)	
90	Silver metal pin	



Sample No.	Description (Material, colour)	Photograph/Location
91	Transparent soft plastic film	
92	Blue soft plastic film	
93	Transparent hard plastic backlight panel,3.3V-W-72.5X56-01PZ	
94	White soft plastic film	
95	Translucent soft plastic film	

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Sample No.	Description (Material, colour)	Photograph/Location
96	Silvery soft plastic film	
97	Black hard plastic button, 6*6*11.5PZ	
98	Silvery metal bracket	
99	Silver metal pin	
100	Black hard plastic base	

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Sample No.	Description (Material, colour)	Photograph/Location
101	Silvery metal base	
102	Golden metal cushion	
103	Silvery metal screw, ST2.9*8	
104	Transparent hard plastic cover, 96T-1	
105	Gray soft plastic panel, B-PZ96-E4-EPEQ2MC-3P-V04	



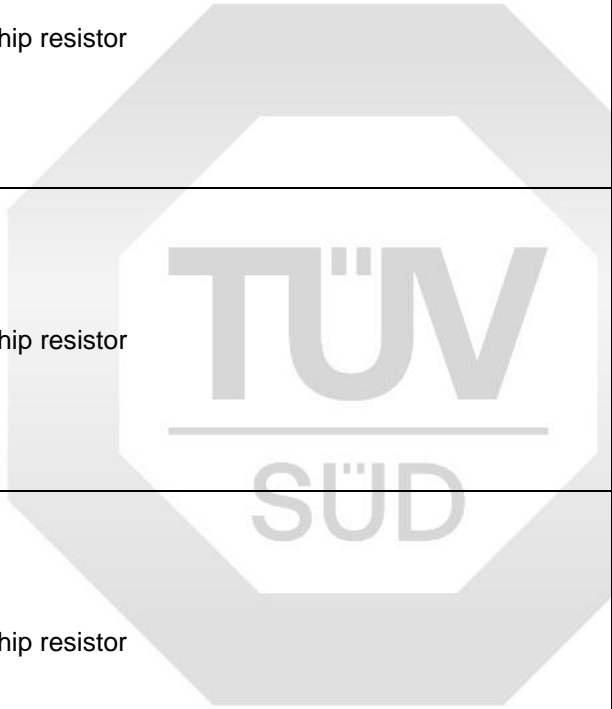
Sample No.	Description (Material, colour)	Photograph/Location
106	Gray soft plastic panel, FS2PZ96L-3Z02	
107	Orange soft plastic button	
108	Transparent soft plastic panel	
109	Gray hard plastic frame, KT-96C-S05-A-01	
110	Golden copper alloy nut	

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Sample No.	Description (Material, colour)	Photograph/Location
111	Transparent hard plastic panel	
112	Black chip resistor	
113	Black chip resistor	
114	Black chip resistor	
115	Brown chip capacitor	

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Sample No.	Description (Material, colour)	Photograph/Location
116	Yellow chip capacitor	A photograph showing a small pile of yellow chip capacitors on a grey surface. Below the capacitors is a yellow ruler with black markings, showing measurements from 71 to 81.

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2. TEST RESULT(S)

2.1 SCREENING TEST

Test method: With reference to EN 62321-1:2013, EN IEC 62321-2:2021, EN 62321-3-1:2014 and EN 62321-8:2017.

For Heavy Metals and Flame Retardants, analyzed by Energy Dispersive X-ray Fluorescence Spectrometer (XRF); for phthalates, analyzed by Gas Chromatography and Mass Spectrometer (GC-MS).

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
01	BL	BL	BL	BL	BL	BL	BL	BL	BL
02	BL	BL	BL	BL	BL	BL	BL	BL	BL
03	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
04	BL	BL	BL	BL	BL	BL	BL	BL	BL
05	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
06	BL	BL	BL	BL	BL	BL	BL	BL	BL
07	BL	BL	BL	BL	BL	BL	BL	BL	BL
08	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
09	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
10	BL	BL	BL	BL	BL	BL	BL	BL	BL
11	BL	BL	BL	BL	BL	BL	BL	BL	BL
12	BL	BL	BL	BL	BL	BL	BL	BL	BL
13	BL	BL	BL	BL	NA	NA	NA	NA	NA
14	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
15	BL	BL	BL	BL	NA	NA	NA	NA	NA
16	BL	BL	BL	BL	BL	BL	BL	BL	BL
17	BL	BL	BL	BL	NA	NA	NA	NA	NA
18	BL	BL	BL	BL	BL	BL	BL	BL	BL
19	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
20	BL	BL	BL	Inc. ^(a)	NA	NA	NA	NA	NA

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
21	BL	BL	BL	BL	BL	BL	BL	BL	BL
22	BL	BL	BL	BL	NA	NA	NA	NA	NA
23	BL	BL	BL	BL	BL	BL	BL	BL	BL
24	BL	BL	BL	BL	BL	BL	BL	BL	BL
25	BL	BL	BL	BL	NA	NA	NA	NA	NA
26	BL	BL	BL	BL	NA	NA	NA	NA	NA
27	BL	BL	BL	BL	NA	NA	NA	NA	NA
28	BL	BL	BL	BL	BL	BL	BL	BL	BL
29	BL	BL	BL	BL	BL	BL	BL	BL	BL
30	BL	BL	BL	BL	BL	BL	BL	BL	BL
31	BL	BL	BL	BL	NA	NA	NA	NA	NA
32	BL	BL	BL	BL	BL	BL	BL	BL	BL
33	BL	BL	BL	BL	BL	BL	BL	BL	BL
34	BL	BL	BL	BL	NA	NA	NA	NA	NA
35	BL	BL	BL	BL	BL	BL	BL	BL	BL
36	BL	BL	BL	BL	BL	BL	BL	BL	BL
37	BL	BL	BL	BL	NA	NA	NA	NA	NA
38	BL	BL	BL	BL	BL	BL	BL	BL	BL
39	BL	BL	BL	BL	NA	NA	NA	NA	NA
40	BL	BL	BL	BL	BL	BL	BL	BL	BL
41	BL	BL	BL	BL	NA	NA	NA	NA	NA
42	BL	BL	BL	BL	NA	NA	NA	NA	NA
43	BL	BL	BL	BL	NA	NA	NA	NA	NA
44	BL	BL	BL	BL	BL	BL	BL	BL	BL



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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
45	BL	BL	BL	BL	BL	BL	BL	BL	BL
46	BL	BL	BL	BL	NA	NA	NA	NA	NA
47	BL	BL	BL	BL	BL	BL	BL	BL	BL
48	BL	BL	BL	BL	BL	BL	BL	BL	BL
49	BL	BL	BL	BL	NA	NA	NA	NA	NA
50	BL	BL	BL	BL	BL	BL	BL	BL	BL
51	BL	BL	BL	BL	NA	NA	NA	NA	NA
52	BL	BL	BL	BL	BL	BL	BL	BL	BL
53	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
54	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
55	BL	BL	BL	BL	NA	NA	NA	NA	NA
56	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
57	BL	BL	BL	BL	BL	BL	BL	BL	BL
58	BL	BL	BL	BL	BL	BL	BL	BL	BL
59	BL	BL	BL	BL	NA	NA	NA	NA	NA
60	BL	BL	BL	BL	BL	BL	BL	BL	BL
61	BL	BL	BL	BL	NA	NA	NA	NA	NA
62	BL	BL	BL	BL	NA	NA	NA	NA	NA
63	BL	BL	BL	BL	NA	NA	NA	NA	NA
64	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
65	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
66	BL	BL	BL	BL	NA	NA	NA	NA	NA
67	BL	BL	BL	BL	BL	BL	BL	BL	BL
68	BL	BL	BL	BL	NA	NA	NA	NA	NA



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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
69	BL	BL	BL	BL	NA	NA	NA	NA	NA
70	BL	BL	BL	BL	BL	BL	BL	BL	BL
71	BL	BL	BL	BL	BL	BL	BL	BL	BL
72	BL	BL	BL	BL	NA	NA	NA	NA	NA
73	BL	BL	BL	BL	NA	NA	NA	NA	NA
74	BL	BL	BL	BL	BL	BL	BL	BL	BL
75	BL	BL	BL	BL	BL	BL	BL	BL	BL
76	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
77	BL	BL	BL	BL	NA	NA	NA	NA	NA
78	BL	BL	BL	BL	BL	BL	BL	BL	BL
79	BL	BL	BL	BL	NA	NA	NA	NA	NA
80	BL	BL	BL	BL	NA	NA	NA	NA	NA
81	BL	BL	BL	BL	NA	NA	NA	NA	NA
82	BL	BL	BL	BL	NA	NA	NA	NA	NA
83	BL	BL	BL	BL	BL	BL	BL	BL	BL
84	BL	BL	BL	Inc. ^(a)	NA	NA	NA	NA	NA
85	BL	BL	BL	BL	NA	NA	NA	NA	NA
86	BL	BL	BL	BL	BL	BL	BL	BL	BL
87	BL	BL	BL	Inc. ^(a)	NA	NA	NA	NA	NA
88	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
89	BL	BL	BL	BL	NA	NA	NA	NA	NA
90	BL	BL	BL	BL	NA	NA	NA	NA	NA
91	BL	BL	BL	BL	BL	BL	BL	BL	BL
92	BL	BL	BL	BL	BL	BL	BL	BL	BL



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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
93	BL	BL	BL	BL	BL	BL	BL	BL	BL
94	BL	BL	BL	BL	BL	BL	BL	BL	BL
95	BL	BL	BL	BL	BL	BL	BL	BL	BL
96	BL	BL	BL	BL	BL	BL	BL	BL	BL
97	BL	BL	BL	BL	BL	BL	BL	BL	BL
98	BL	BL	BL	Inc. ^(a)	NA	NA	NA	NA	NA
99	BL	BL	BL	BL	NA	NA	NA	NA	NA
100	BL	BL	BL	BL	BL	BL	BL	BL	BL
101	BL	BL	BL	BL	NA	NA	NA	NA	NA
102	BL	BL	BL	BL	NA	NA	NA	NA	NA
103	BL	BL	BL	BL	NA	NA	NA	NA	NA
104	BL	BL	BL	BL	BL	BL	BL	BL	BL
105	BL	BL	BL	BL	BL	BL	BL	BL	BL
106	BL	BL	BL	BL	BL	BL	BL	BL	BL
107	BL	BL	BL	BL	BL	BL	BL	BL	BL
108	BL	BL	BL	BL	BL	BL	BL	BL	BL
109	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
110	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
111	BL	BL	BL	BL	BL	BL	BL	BL	BL
112	BL	BL	BL	BL	BL	BL	BL	BL	BL
113	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
114	BL	BL	BL	BL	BL	BL	BL	BL	BL
115	BL	BL	BL	BL	BL	BL	BL	BL	BL
116	BL	BL	BL	BL	BL	BL	BL	BL	BL



Remark:

- "BL" denotes below limit
- "OL" denotes over limit
- "Inc." denotes inconclusive
- "NA" denotes not applicable
- "(a)" denotes further confirmation test was conducted, results are listed in 2.2 and 2.3.
- XRF screening limits in mg/kg for regulated elements in various matrices

ELEMENT	POLYMER		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X \geq (130+3\sigma)$
Pb	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Hg	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Br	$X \leq (300-3\sigma)$	$X > (300-3\sigma)$	NA
Cr	$X \leq (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	METAL		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X \geq (130+3\sigma)$
Pb	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Hg	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Cr	$X \leq (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	COMPLEX MATERIAL		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (50-3\sigma)$	$(50-3\sigma) < X < (150+3\sigma)$	$X \geq (150+3\sigma)$
Pb	$X \leq (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X \geq (1500+3\sigma)$
Hg	$X \leq (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X \geq (1500+3\sigma)$
Br	$X \leq (250-3\sigma)$	$X > (250-3\sigma)$	NA
Cr	$X \leq (500-3\sigma)$	$X > (500-3\sigma)$	NA

- Screening limits in mg/kg for regulated phthalates in various matrices

PHTHALATES	BL	INCONCLUSIVE
DEHP	$X < 600$	$X \geq 600$
BBP	$X < 600$	$X \geq 600$
DBP	$X < 600$	$X \geq 600$
DIBP	$X < 600$	$X \geq 600$

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2.2 HEAVY METAL CONTENT

Test method: With reference to EN 62321-4:2014 /A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Ultraviolet-visible spectrophotometer (UV-Vis).

[Reporting Limit: 2.0 mg/kg for Cadmium; 5.0 mg/kg or 0.10 µg/cm² for Hexavalent Chromium, 10.0 mg/kg for Lead and Mercury.]

Sample No.	Result(s)				
	Total Cadmium	Hexavalent Chromium	Hexavalent Chromium	Total Mercury	Total Lead
05	--	--	--	--	2487.0 ^(d)
08	--	--	--	--	3398.0 ^(d)
09	--	--	--	--	144818.0 ^(d)
20	--	/	Negative	--	--
84	--	/	Negative	--	--
87	--	/	Negative	--	--
88	--	/	--	--	22230.0 ^(c)
98	--	/	Negative	--	--
110	--	/	--	--	29641.0 ^(c)
113	--	--	--	--	2362.0 ^(d)
Unit	mg/kg	mg/kg	µg/cm²	mg/kg	mg/kg
RoHS Requirement	100	1000	Negative [#]	1000	1000

Remark:

- "mg/kg" denotes milligram per kilogram
- "µg/cm²" denotes micrograms per square centimeter
- "<" denotes less than
- "Positive" denotes the absorbance value of sample is > 0.13 µg/cm², the sample is considered to be positive for Hexavalent Chromium.
- "Inconclusive" denotes the absorbance value of sample is ≥ 0.10 µg/cm² and ≤ 0.13 µg/cm², the sample is considered to be Inconclusive for Hexavalent Chromium.
- "Negative" denotes the absorbance value of sample is < 0.10 µg/cm², the sample is considered to be negative for Hexavalent Chromium.
- [#] According to DIRECTIVE 2011/65/EU Article 4(1) and Annex II. While, positive means the presence of CrVI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1) and Annex II.
- "--" denotes tested by XRF, result is listed in 2.1
- ^(c) denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) "Copper alloy containing up to 4 % lead by weight".
- ^(d) denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 7(c)-I "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound".



2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		03	14	19	53	54	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
Sum of detected PBBs		<50	<50	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
Sum of detected PBDEs		<50	<50	<50	<50	<50	1000

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2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		56	64	65	76	109	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs		<50	<50	<50	<50	<50
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs		<50	<50	<50	<50	<50

Remark:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than

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Dated: 2023-11-10



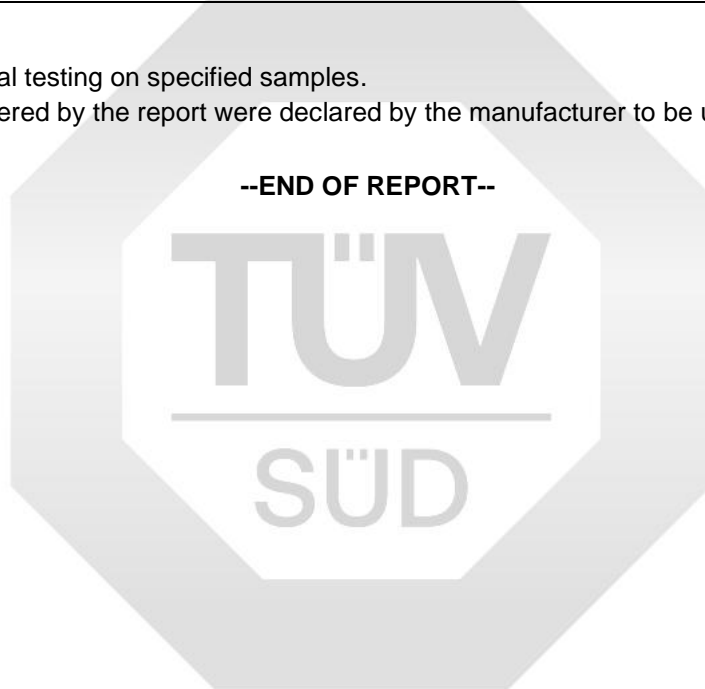
APPENDIX I: Product Model

Product: Meter	Test model: PZ
	
Additional model: ACR, PZ72, PZ96, PZ80, PZ72L, PZ96L, PZ80L, ACR1XX, ACR2XX, ACR3XX, PZ96L-HW	

Remark:

1. The report covers material testing on specified samples.
2. The tested materials covered by the report were declared by the manufacturer to be used on the additional model.

--END OF REPORT--



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