

Test Report No.: 48.400.23.1087.01-00/13

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.: ADW300  
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.

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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	<b>PASS</b>	
2.	Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content	<b>PASS</b>	
3.	Phthalates (DEHP, BBP, DBP and DIBP) Content	<b>PASS</b>	

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1. TESTED SUBJECT DESCRIPTION

Sample No.	Description (Material, colour)	Photograph/Location
01	Gray hard plastic shell	
02	Gray rubber button	
03	White ink	
04	Transparent hard plastic cover	
05	Gray hard plastic base	

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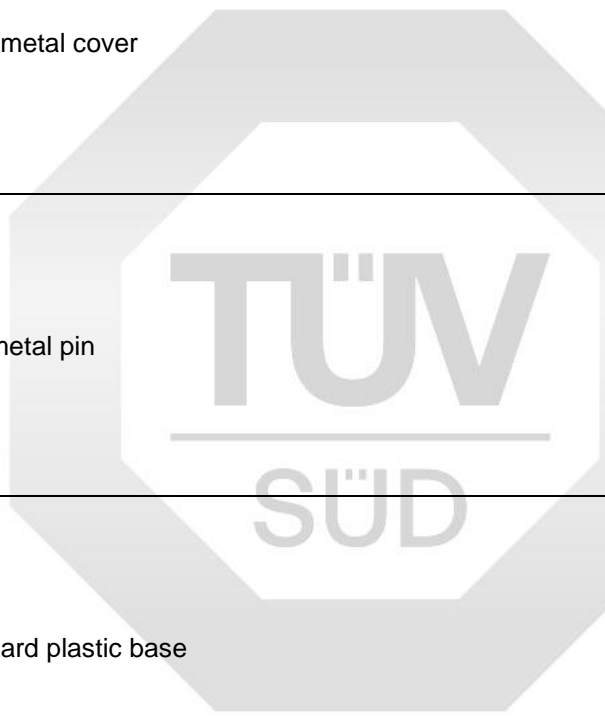
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Sample No.	Description (Material, colour)	Photograph/Location
06	Brown soft plastic film	
07	White hard plastic component	
08	Silver metal pin	
09	Black soft plastic film	
10	Brown hard plastic component	



Sample No.	Description (Material, colour)	Photograph/Location
11	Silver metal pin	
12	Silvery metal cover	
13	Silver metal pin	
14	Black hard plastic base	
15	Black hard IC	

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Sample No.	Description (Material, colour)	Photograph/Location
16	Gray hard plastic socket	
17	Silvery copper alloy nut	
18	Silvery metal screw	
19	Gray hard plastic socket	
20	Silvery copper alloy nut	





Sample No.	Description (Material, colour)	Photograph/Location
21	Silvery metal screw	
22	White soft plastic film	
23	Yellow soft plastic adhesive tape	
24	Transparent hard plastic plate	
25	Translucent soft plastic film	

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Sample No.	Description (Material, colour)	Photograph/Location
26	White hard PCB	
27	Yellow light-emitting diode	
28	Silver metal pin	
29	Transparent glass	
30	Transparent soft plastic film	





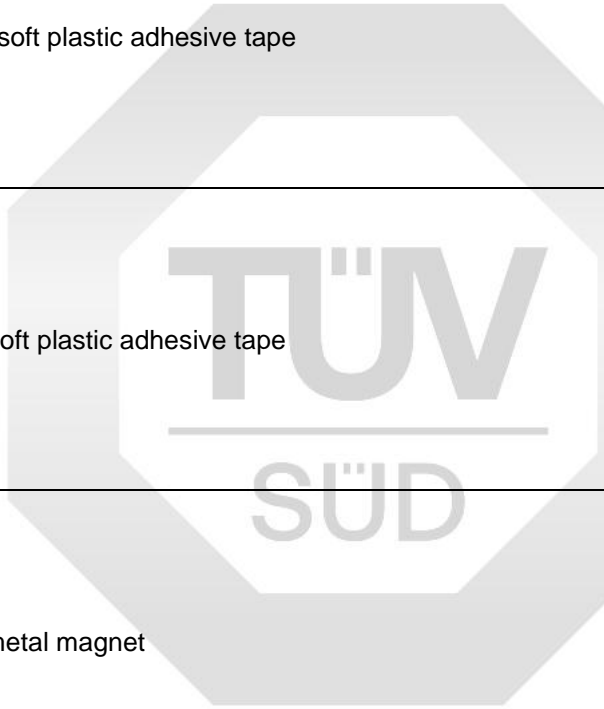
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Sample No.	Description (Material, colour)	Photograph/Location
31	Blue soft plastic film	
32	Gray soft plastic film	
33	Black soft plastic potting compound	
34	Silver metal pin	
35	Black hard plastic frame	



Sample No.	Description (Material, colour)	Photograph/Location
36	Silver metal pin	
37	Yellow soft plastic adhesive tape	
38	White soft plastic adhesive tape	
39	Black metal magnet	
40	Golden metal wire	

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Sample No.	Description (Material, colour)	Photograph/Location
41	Transparent soft plastic inflatable bag, CQD QT-13L237(96)(CQD-280*215-Q-01)	
42	Brown paper packing box, B/ZH-170×150×125-J01(A)	
43	Green hard PCB, KB	
44	black resistance, CR_0603_0R_J	
45	black resistance, CR_0603_10k_F_100ppm	



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Sample No.	Description (Material, colour)	Photograph/Location
46	Brown capacitor, CC_0603_0.1uF_50V	
47	Brown capacitor, CC_0805_10uF_16V	
48	black resistance, RZ_10P8_10k_J	
49	Golden diode, LL4148-SMD	
50	Black triode, 9013	





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Sample No.	Description (Material, colour)	Photograph/Location
51	Black hard IC, TLV70033DDCR	
52	Black hard IC, HT1621B/HOLTEK	
53	Silver metal pin	
54	Black hard IC, MB85RC16	
55	Silver metal pin	



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Sample No.	Description (Material, colour)	Photograph/Location
56	Black hard IC, STM32F401RCT6	
57	Silver metal pin	
58	Black hard IC, XN_3225_12MHz_20pF_20ppm	
59	Black hard plastic frame, 22N8572-10M00B-01G-6.7-C	
60	Silver metal pin	





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Sample No.	Description (Material, colour)	Photograph/Location
61	Gray capacitor, CC_0603_2.2uF_25V	
62	Black metal magnetic beads FB_0603_100mA_1k	
63	Black diode, BAV199LT1G	
64	Black hard IC, RN7302	
65	Silver metal pin	



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Sample No.	Description (Material, colour)	Photograph/Location
66	Silvery metal crystal oscillator, XN_SMD49_8.192MHz_20pF_20ppm	
67	Silver metal pin	
68	Black hard plastic cover	
69	Black triode, 8050-SMD	
70	Black diode, RS1D	



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Sample No.	Description (Material, colour)	Photograph/Location
71	Silver metal pin	
72	Black diode, SS310-SMD	
73	Black diode, SMAJ5.0A	
74	Silver metal pin	
75	Black hard IC, AMS431AM(BM)-SMD	



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Sample No.	Description (Material, colour)	Photograph/Location
76	Black hard IC, 78L05-SMD(KIA78L05)LM78L05F)	
77	Silver metal pin	
78	Black hard IC, ISL3152EIBZ-T	
79	Silver metal pin	
80	Black optocoupler, LTV-356T-B	



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Sample No.	Description (Material, colour)	Photograph/Location
81	Silver metal pin	
82	Silvery aluminum shell, CD_6.3X7.7_100uF_35V	
83	Silver metal pin	
84	Gray soft plastic film	
85	Black rubber cushion	





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Sample No.	Description (Material, colour)	Photograph/Location
86	Silvery aluminum shell, CD_6.3X7.7_220uF_16V	
87	Black rubber cushion	
88	Gray soft plastic film	
89	Silver metal pin	
90	Black bridge chip, DB107S	





Sample No.	Description (Material, colour)	Photograph/Location
91	Silver metal pin	
92	Black inductance, PCD0503MT3R3(5.8*5.2*3 3.3 μ H 2.8A)(±20%)	
93	Black hard power chip, TNY286PG	
94	Silver metal pin	
95	Green metal wave filter, 47 μ H/40m Ω	

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Sample No.	Description (Material, colour)	Photograph/Location
96	Golden metal wire	
97	Translucent hard plastic plate	
98	Black hard plastic base	
99	Silver metal pin	
100	green resistance, RM-12D-55mA	



Sample No.	Description (Material, colour)	Photograph/Location
101	Silver metal pin	
102	Yellow soft plastic label	
103	Silvery soft plastic label	
104	Black chip resistor	
105	Black chip resistor	

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Sample No.	Description (Material, colour)	Photograph/Location
106	Black chip resistor	
107	Brown chip capacitor	
108	Yellow chip capacitor	
109	Gray soft plastic label	
110	White hard plastic bracket	

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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	Inc. <sup>(a)</sup>	BL	BL	BL	BL
02	BL	BL	BL	BL	BL	BL	BL	BL	BL
03	BL	BL	BL	BL	BL	BL	BL	BL	BL
04	BL	BL	BL	BL	BL	BL	BL	BL	BL
05	BL	BL	BL	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL
06	BL	BL	BL	BL	BL	BL	BL	BL	BL
07	BL	BL	BL	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL
08	BL	BL	BL	BL	NA	NA	NA	NA	NA
09	BL	BL	BL	BL	NA	NA	NA	NA	NA
10	BL	BL	BL	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL
11	BL	BL	BL	BL	NA	NA	NA	NA	NA
12	BL	BL	BL	BL	NA	NA	NA	NA	NA
13	BL	BL	BL	BL	NA	NA	NA	NA	NA
14	BL	BL	BL	BL	BL	BL	BL	BL	BL
15	BL	BL	BL	BL	BL	BL	BL	BL	BL
16	BL	BL	BL	BL	BL	BL	BL	BL	BL
17	BL	Inc. <sup>(a)</sup>	BL	BL	NA	NA	NA	NA	NA
18	BL	BL	BL	Inc. <sup>(a)</sup>	NA	NA	NA	NA	NA
19	BL	BL	BL	BL	BL	BL	BL	BL	BL
20	BL	Inc. <sup>(a)</sup>	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
21	BL	BL	BL	Inc. <sup>(a)</sup>	NA	NA	NA	NA	NA
22	BL	BL	BL	BL	BL	BL	BL	BL	BL
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	BL	BL	BL	BL	BL
26	BL	BL	BL	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL
27	BL	BL	BL	BL	BL	BL	BL	BL	BL
28	BL	BL	BL	BL	NA	NA	NA	NA	NA
29	BL	BL	BL	BL	NA	NA	NA	NA	NA
30	BL	BL	BL	BL	BL	BL	BL	BL	BL
31	BL	BL	BL	BL	BL	BL	BL	BL	BL
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	NA	NA	NA	NA	NA
37	BL	BL	BL	BL	BL	BL	BL	BL	BL
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	NA	NA	NA	NA	NA
41	BL	BL	BL	BL	BL	BL	BL	BL	BL
42	BL	BL	BL	BL	BL	BL	BL	BL	BL
43	BL	BL	BL	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL
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	Inc. <sup>(a)</sup>	BL	BL	BL	BL	BL	BL	BL
46	BL	BL	BL	BL	BL	BL	BL	BL	BL
47	BL	BL	BL	BL	BL	BL	BL	BL	BL
48	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL	BL	BL	BL
49	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL	BL	BL	BL
50	BL	BL	BL	BL	BL	BL	BL	BL	BL
51	BL	BL	BL	BL	BL	BL	BL	BL	BL
52	BL	BL	BL	BL	BL	BL	BL	BL	BL
53	BL	BL	BL	BL	NA	NA	NA	NA	NA
54	BL	BL	BL	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL
55	BL	BL	BL	BL	NA	NA	NA	NA	NA
56	BL	BL	BL	BL	BL	BL	BL	BL	BL
57	BL	BL	BL	BL	NA	NA	NA	NA	NA
58	BL	BL	BL	BL	BL	BL	BL	BL	BL
59	BL	BL	BL	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL
60	BL	BL	BL	Inc. <sup>(a)</sup>	NA	NA	NA	NA	NA
61	BL	BL	BL	BL	BL	BL	BL	BL	BL
62	BL	BL	BL	BL	NA	NA	NA	NA	NA
63	BL	BL	BL	BL	BL	BL	BL	BL	BL
64	BL	BL	BL	BL	BL	BL	BL	BL	BL
65	BL	BL	BL	BL	NA	NA	NA	NA	NA
66	BL	BL	BL	BL	NA	NA	NA	NA	NA
67	BL	BL	BL	BL	NA	NA	NA	NA	NA
68	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
69	BL	BL	BL	BL	BL	BL	BL	BL	BL
70	BL	BL	BL	BL	BL	BL	BL	BL	BL
71	BL	BL	BL	BL	NA	NA	NA	NA	NA
72	BL	BL	BL	BL	BL	BL	BL	BL	BL
73	BL	BL	BL	BL	BL	BL	BL	BL	BL
74	BL	BL	BL	BL	NA	NA	NA	NA	NA
75	BL	BL	BL	BL	BL	BL	BL	BL	BL
76	BL	BL	BL	BL	BL	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	BL	BL	BL	BL	BL
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	NA	NA	NA	NA	NA
84	BL	BL	BL	BL	BL	BL	BL	BL	BL
85	BL	BL	BL	BL	BL	BL	BL	BL	BL
86	BL	BL	BL	BL	NA	NA	NA	NA	NA
87	BL	BL	BL	BL	BL	BL	BL	BL	BL
88	BL	BL	BL	BL	BL	BL	BL	BL	BL
89	BL	BL	BL	BL	NA	NA	NA	NA	NA
90	BL	BL	BL	BL	BL	BL	BL	BL	BL
91	BL	BL	BL	BL	NA	NA	NA	NA	NA
92	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
93	BL	BL	BL	BL	BL	BL	BL	BL	BL
94	BL	BL	BL	BL	NA	NA	NA	NA	NA
95	BL	BL	BL	BL	NA	NA	NA	NA	NA
96	BL	BL	BL	BL	NA	NA	NA	NA	NA
97	BL	BL	BL	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL
98	BL	BL	BL	BL	Inc. <sup>(a)</sup>	BL	BL	BL	BL
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	BL	BL	BL	BL	BL
103	BL	BL	BL	BL	BL	BL	BL	BL	BL
104	BL	BL	BL	BL	BL	BL	BL	BL	BL
105	BL	Inc. <sup>(a)</sup>	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	BL	BL	BL	BL	BL
110	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/cm<sup>2</sup> 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
17	--	--	--	--	20432.0 <sup>(c)</sup>
18	--	/	Negative	--	--
20	--	--	--	--	22026.0 <sup>(c)</sup>
21	--	/	Negative	--	--
45	--	--	--	--	2487.0 <sup>(d)</sup>
48	--	--	--	--	3398.0 <sup>(d)</sup>
49	--	--	--	--	144818.0 <sup>(d)</sup>
60	--	/	Negative	--	--
105	--	--	--	--	2362.0 <sup>(d)</sup>
Unit	mg/kg	mg/kg	µg/cm <sup>2</sup>	mg/kg	mg/kg
RoHS Requirement	100	1000	Negative <sup>#</sup>	1000	1000

### Remark:

- "mg/kg" denotes milligram per kilogram
- "µg/cm<sup>2</sup>" denotes micrograms per square centimeter
- "<" denotes less than
- "Positive" denotes the absorbance value of sample is > 0.13 µg/cm<sup>2</sup>, the sample is considered to be positive for Hexavalent Chromium.
- "Inconclusive" denotes the absorbance value of sample is ≥ 0.10 µg/cm<sup>2</sup> and ≤ 0.13 µg/cm<sup>2</sup>, the sample is considered to be Inconclusive for Hexavalent Chromium.
- "Negative" denotes the absorbance value of sample is < 0.10 µg/cm<sup>2</sup>, the sample is considered to be negative for Hexavalent Chromium.
- <sup>#</sup> 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
- <sup>(c)</sup> denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) "Copper alloy containing up to 4 % lead by weight".
- <sup>(d)</sup> 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]
		01	05	07	10	26	
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	-
<b>Sum of detected PBBs</b>		<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	-
<b>Sum of detected PBDEs</b>		<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]
		43	54	59	97	98	
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	-
	<b>Sum of detected PBBs</b>		<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	-
	<b>Sum of detected PBDEs</b>		<50	<50	<50	<50	<50

Remark:

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

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Dated: 2023-11-10



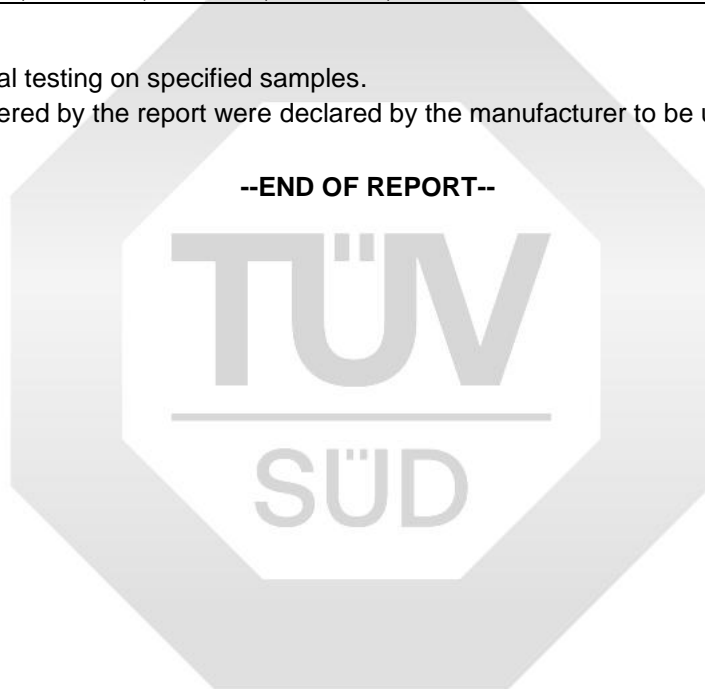
**APPENDIX I: Product Model**

Product: Meter	Test model: ADW300
	
Additional models: ADW200, ADW210, ADW220, ADW310, ADW300W	

**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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