

# 测试报告

委托单位 : 深圳市计为自动化技术有限公司

地 址 : 深圳市龙岗区横岗街道龙岗大道 588 号宝丽商务 501

#### 以下测试之样品及样品信息由委托者提供并确认:

样品名称 : 紧凑型音叉液位开关

样品型号 : Ring21

样品数量 : 11pcs

样品接收日期 : 2016年7月20日

样品测试日期 : 2016年7月21日~2016年8月4日

检测		
	李腾贵	2016年8月5日
审核		
	万得记	2016年8月5日
批准		
# N	张洪义 授权签字人	2016年8月5日

#### 深圳市鑫宇环检测有限公司

#### 警告:

检测报告无批准人签字及"报告专用章"无效,本报告检测结果仅对受测样品负责。未经 AGC 书面同意,不得部分复制本报告。



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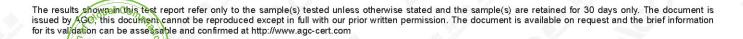


报告版本: V2.0 第2页共33页

# 测试报告

#### 测试要求

50% (0)			
C 32/	测试顺序	A STATE OF THE STA	测试项目
	1	All sales and	低温储存
- <del> </del>	2	0" (9	低温工作
	3	/	高温储存
	4	5. A	高温工作
V .	5		冷热冲击
	6		交变湿热
10	7		恒定湿热
	8		正弦振动
*	9	77/	IP防护测试



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报告版本: V2.0 第 3 页 共 33 页

## 测试报告

#### 测试项目1: 低温储存

1) 环境条件:

温度: 25.1℃,湿度: 58%RH

2) 测试样品信息:

样	华品编号	样品名称	型号	A didde	数量
, gr	001	**	Ring21 01		1pc
	002	紧凑型音叉液位开关	Ring21 05	-	1pc
*	003	C 1/2	Ring21 20	E Carlotte	1pc

3) 测试依据: IEC60068-2-1-1981

4) 测试条件:

按照 IEC 60068-2-1 中规定的程序试验。试验期间,受试设备处于非工作状态。试验条件见表 1。

#### 表 1 低温贮存试验条件

试验温度(℃)	恒温时间(h)	贮存时间(h)	变化速率 (°C/min)	试验允差(℃)
-40	1	2	≤3	±2

试验前,对受试设备进行试验前检测,检测结果应符合要求。

然后调节温箱温度,以≤3℃/min 的温度变化速率将试验箱温度降到-40℃,保持不变,直至达到温度稳定 (1h) 后,再保温 2h。低温贮存试验期间产品不工作。

试验后将试验箱按 IEC 60068-2-1 相关规定恢复到正常的试验大气条件,直至试验样品达到温度稳定。对受试设备进行试验后检测,检测结果应符合要求。产品性能应正常,外观应无裂纹,涂层应无脱落现象。

#### 5) 测试仪器:

序号	仪器名称	仪器编号	校准有效期
1	恒温恒湿箱	AGC-RE-E009	2017年1月20日
2	直流电源	AGC-RE-E044	2017年1月20日

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# 测试报告

#### 6) 测试结果:

样品编号	测试结果	结果判定
001	产品性能正常,外观无裂纹,涂层无脱落现象。	合格
002	产品性能正常,外观无裂纹,涂层无脱落现象。	合格
003	产品性能正常,外观无裂纹,涂层无脱落现象。	合格



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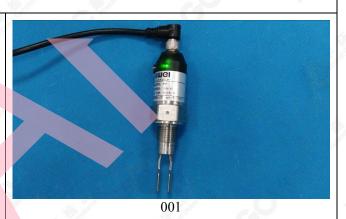
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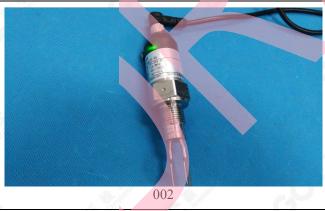
#### 测试中样品照片



#### 测试后样品照片









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# 测试报告

#### 测试项目 2: 低温工作

1) 环境条件:

温度: 25.3℃,湿度: 56%RH

2) 测试样品信息:

样占	品编号	样品名称	型号	Mr. Addin.	数量
(	001		Ring21 01		1pc
(	002	紧凑型音叉液位开关	Ring21 05	-	1pc
	003	C 30 1	Ring21 20	Se Carlotte	1pc

3) 测试依据: IEC60068-2-1-1981

4) 测试条件:

按照IEC 60068-2-1中规定的程序试验。

注意接电时的供电电压:

1、继电器: DC 24V

2、继电器: AC 220V

3、PNP:DC 24V

试验条件见表2。

#### 表2 低温工作试验条件

试验温度 (℃)	恒温时间(h)	工作时间(h)	变化速率 (℃/min)	试验允差(℃)
-40	1	2	≤3	±2

试验前,对受试设备进行试验前检测,检测结果应符合要求。

试验过程中,保温1小时后,受试设备加电工作2h,并进行试验中检测,检测结果应符合要求。

试验后将试验箱按IEC 60068-2-1规定恢复到正常的试验大气条件,直至试验样品达到温度稳定。对受试设备进行试验后检测,测试结果应符合要求。产品性能应正常,外观应无裂纹,涂层应无脱落现象。

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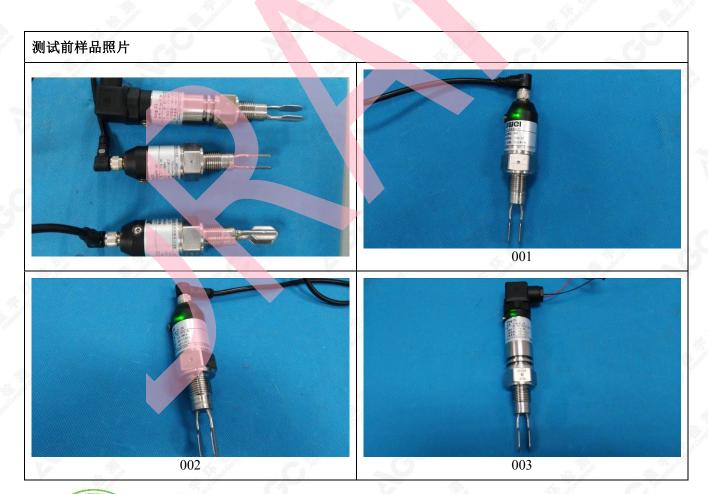
# 测试报告

#### 5) 测试仪器:

序号	仪器名称	仪器编号	校准有效期
1	恒温恒湿箱	AGC-RE-E009	2017年1月20日
2	直流电源	AGC-RE-E044	2017年1月20日

#### 6) 测试结果:

样品编号	测试结果	结果判定
001	产品性能正常,外观无裂纹,涂层无脱落现象。	合格
002	产品性能正常,外观无裂纹,涂层无脱落现象。	合格
003	产品性能正常,外观无裂纹,涂层无脱落现象。	合格



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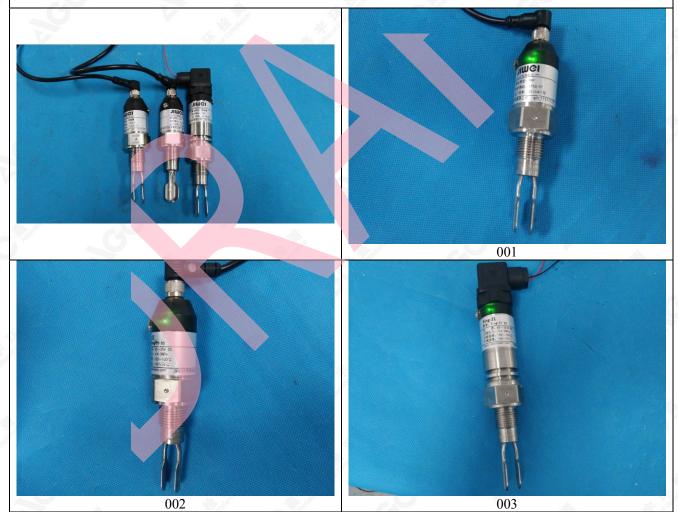
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# 测试报告

#### 测试中样品照片



#### 测试后样品照片



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## 测试报告

#### 测试项目 3: 高温储存

1) 环境条件:

温度: 25.1℃,湿度: 53%RH

2) 测试样品信息:

样品编	号	样品名称	型号	All and a second	数量
001			Ring21 01	از	1pc
009	, # P	紧凑型音叉液位开关	Ring21 17		1pc
008	A de de de	C 37/1 5	Ring21 08	٠ ١	1pc

3) 测试依据: IEC60068-2-2-1981

#### 4) 测试条件:

按照IEC 60068-2-2中规定的程序试验,试验期间,受试设备处于非工作状态。

试验条件见表3。

#### 表3 高温贮存试验条件

试验温度(℃)	恒温时间(h)	贮存时间(h)	变化速率 (℃/min)	试验允差(℃)
70	1	2	≤3	±2

试验前,对受试设备进行试验前检测,检测结果应符合要求。

试验后将试验箱按IEC 60068-2-2中规定恢复到正常的试验大气条件,直至试验样品达到温度稳定。对受试设备进行试验后检测,测试结果应符合要求。产品性能应正常,外观应无裂纹,涂层应无脱落现象。

#### 5) 测试仪器:

序号	仪器名称	仪器编号	校准有效期	
1	恒温恒湿箱	AGC-RE-E009	2017年1月20日	
2	直流电源		2017年1月20日	

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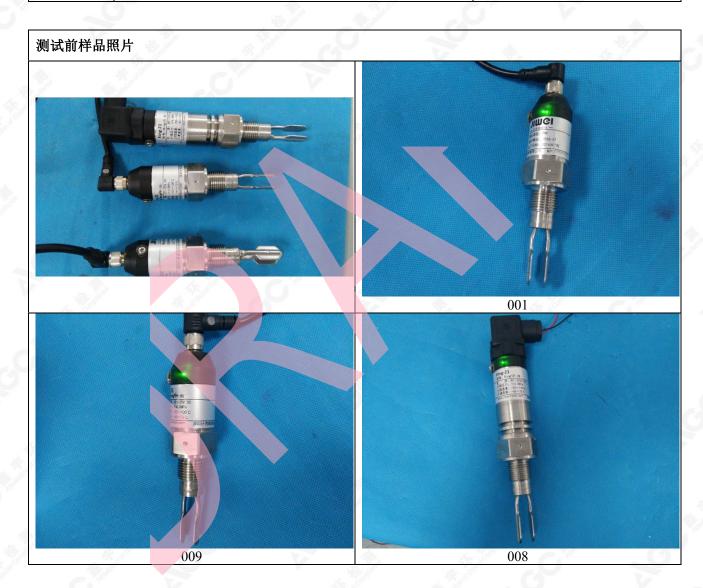


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# 测试报告

#### 6) 测试结果:

样品编号	测试结果	结果判定
001	产品性能正常,外观无裂纹,涂层无脱落现象。	合格
002	产品性能正常,外观无裂纹,涂层无脱落现象。	合格
003	产品性能正常,外观无裂纹,涂层无脱落现象。	合格



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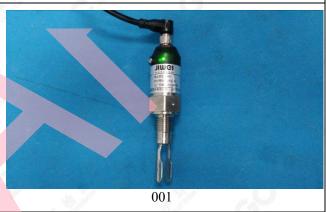
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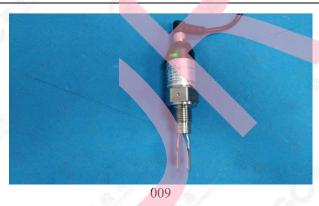
#### 测试中样品照片



#### 测试后样品照片









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# 测试报告

#### 测试项目 4: 高温工作

1) 环境条件:

温度: 24.5℃,湿度: 53%RH

2) 测试样品信息:

样	华品编号	样品名称	型号	A didde	数量
, gr	001	**	Ring21 01		1pc
	002	紧凑型音叉液位开关	Ring21 05	-	1pc
*	003	C 1/2	Ring21 20	E Carlotte	1pc

3) 测试依据: IEC60068-2-2-1981

4) 测试条件:

按照IEC 60068-2-2规定的程序试验。

注意接电时的供电电压:

1、继电器: DC 24V

2、继电器: AC 220V

3、PNP:DC 24V

试验条件见表4。

#### 表4 高温工作试验条件

试验温度(℃)	恒温时间(h)	工作时间(h)	变化速率 (℃/min)	试验允差(℃)
70	1	2	≤3	±2

试验前,对受试设备进行试验前检测,检测结果应符合要求。

试验过程中,保温1小时后,受试设备加电工作2h,并进行试验中检测,检测结果应符合要求。

试验后将试验箱按IEC 60068-2-2中规定恢复到正常的试验大气条件,直至试验样品达到温度稳定。对受试设备进行试验后检测,检测结果应符合要求。产品性能应正常,外观应无变形、裂纹,涂层应无脱落现象。

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# 测试报告

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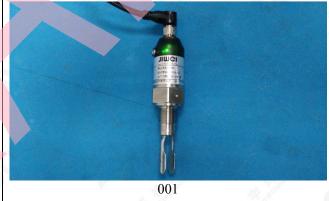
序号	仪器名称	仪器编号	校准有效期
1	恒温恒湿箱	AGC-RE-E009	2017年1月20日
2	直流电源	AGC-RE-E044	2017年1月20日

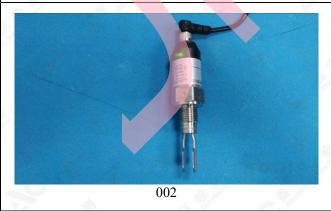
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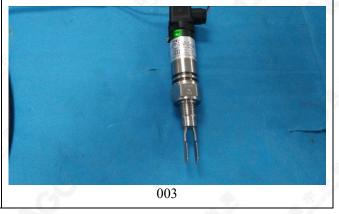
样品编号	测试结果	结果判定
001	产品性能正常,外观无裂纹,涂层无脱落现象。	合格
002	产品性能正常,外观无裂纹,涂层无脱落现象。	合格
003	产品性能正常,外观无裂纹,涂层无脱落现象。	合格

测试前样品照片









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# 测试报告

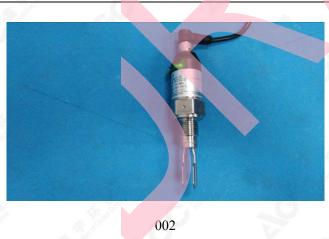
#### 测试中样品照片

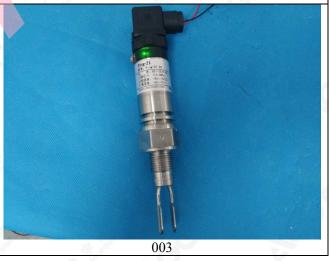


#### 测试后样品照片









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# 测试报告

#### 测试项目 5: 冷热冲击

1) 环境条件:

温度: 24.5℃,湿度: 53%RH

2) 测试样品信息:

样品编	号	样品名称	型号	The state of the s	数量
001			Ring21 01		1pc
002	<b>老</b>	紧凑型音叉液位开关	Ring21 05		1pc
010	14. 15 B	C 3/1	Ring21 18	Service of the servic	1pc

3) 测试依据: IEC60068-2-14-1981

#### 4) 测试条件:

按IEC 60068-2-14有关规定进行试验。试验期间, 受试设备处于非工作状态。

试验条件见表5。

表5 温度冲击试验条件

试验温度(℃)	高低各自恒温时间 (h)	转换时间	循环次数	试验允差(℃)
高温: 70 低温: -40	1	3~5min	24	±2

试验前,对受试设备进行试验前检测,检测结果应符合要求。

试验后将样品在正常的试验大气条件下进行恢复,直至试验样品达到温度稳定。然后对受试设备进行试验 后检测,检测结果应符合要求。产品性能应正常,外观应无变形、裂纹,涂层应无脱落现象。

#### 5) 测试仪器:

序号	仪器名称	仪器编号	校准有效期
1, 3, 4, 5	高低温冲击箱	AGC-RE-E001	2017年1月20日
2	直流电源	AGC-RE-E044	2017年1月20日

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# 测试报告

#### 6) 测试结果:

样品编号	测试结果	结果判定
001	产品性能正常,外观无变形、裂纹,涂层无脱落现象	合格
002	产品性能正常,外观无变形、裂纹,涂层无脱落现象	合格
003	产品性能正常,外观无变形、裂纹,涂层无脱落现象	合格

# 测试前样品照片 O01

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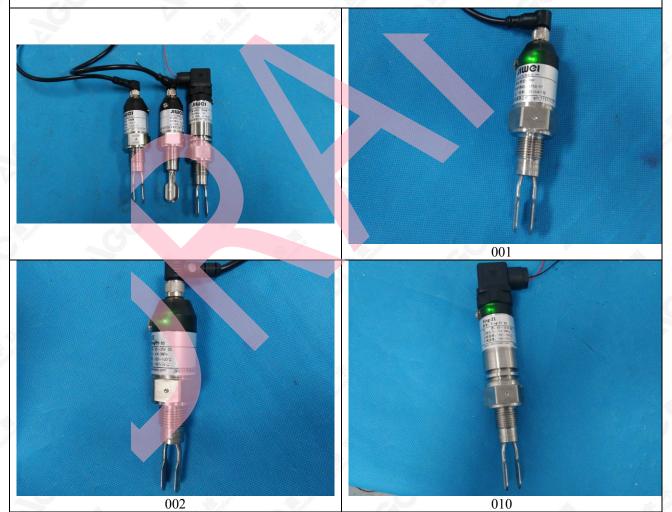
报告版本: V2.0 第17页共33页

# 测试报告

#### 测试中样品照片



#### 测试后样品照片



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# 测试报告

#### 测试项目 6: 交变湿热

1) 环境条件:

温度: 24.3℃,湿度: 55%RH

2) 测试样品信息:

A STATE OF THE STA	样品编号	样品名称	型号	Mr. Salar	数量
	001	**	Ring21 01		1pc
	002	紧凑型音叉液位开关	Ring21 05		1pc
*	011	C*/ *	Ring21 12	a Constant	1pc

3) 测试依据: IEC60068-2-30-1981

4) 测试条件:

按IEC 60068-2-30有关规定进行试验。试验期间,受试设备处于非工作状态。试验条件见表6。

表6交变湿热试验条件

试验阶段	温度(℃)	相对湿度 (%)	时间 (h)	周期数	试验允差
升温	25→55	≥95	3	4	
高温高湿	55	≥95	9	2	温度: ±2℃ 相对湿度: ±5%
降温	55→25	≥95	9		
低温高湿	25	≥95	3		

试验前,对受试设备进行试验前检测,检测结果应符合要求。

完成试验前的检测后,试验箱内的温度调节为25℃ $\pm 2$ ℃、相对湿度为95% $\pm 5$ %,并保持24h后,调节试验箱内的温度为25℃、相对湿度为95%。按表6的试验条件暴露试件。

试验后设备在试验箱内恢复到正常试验大气条件,直至达到温度稳定。对受试设备进行试验后检测,检测结果应符合要求。产品性能应正常,外观应无裂纹,漆层和镀层应无脱落现象。

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# 测试报告

#### 5) 测试仪器:

序号	仪器名称	仪器编号	校准有效期
1	恒温恒湿箱	AGC-RE-E009	2017年1月20日
2 4	直流电源	AGC-RE-E044	2017年1月20日

#### 6) 测试结果:

样品编号	测试结果	结果判定	
001	产品性能正常,外观无裂纹,漆层和镀层无脱落现象	合格	
002	产品性能正常,外观无裂纹,漆层和镀层无脱落现象	合格	
003	产品性能正常,外观无裂纹,漆层和镀层无脱落现象	合格	

# 测试前样品照片

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报告版本: V2.0 第 20 页 共 33 页

# 测试报告



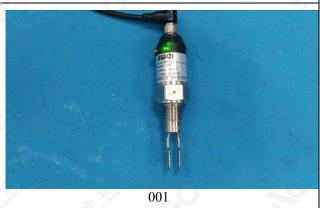


#### 测试中样品照片



#### 测试后样品照片





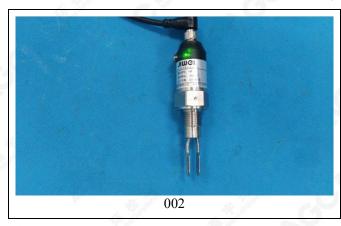
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# 测试报告







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# 测试报告

#### 测试项目7: 恒定湿热

1) 环境条件:

温度: 24.5℃,湿度: 57%RH

#### 2) 测试样品信息:

A Same	样品编号	样品名称	型号	My Salar	数量
y 30°	001		Ring21 01		1pc
	002	紧凑型音叉液位开关	Ring21 05	<b>A</b>	1pc
4	003		Ring21 20	The same	1pc

3) 测试依据: IEC60068-2-78-1981

#### 4) 测试条件:

按IEC 60068-2-78有关规定进行试验。试验期间,受试设备处于非工作状态。试验条件见表7。

#### 表7恒定湿热试验条件

温度(℃)	相对湿度(%)	时间 (h)	试验允差
40	≥95	48	温度: ±2℃ 相对湿度: ±5%

试验前,对受试设备进行试验前检测,检测结果应符合要求。

试验后设备在试验箱内恢复到正常试验大气条件,直至达到温度稳定。对受试设备进行试验后检测,检测结果应符合要求。产品性能应正常,外观应无裂纹,漆层和镀层应无脱落现象。

#### 5) 测试仪器:

序号	仪器名称	仪器编号	校准有效期
1	高低温冲击箱	AGC-RE-E001	2017年1月20日
2	直流电源	AGC-RE-E044	2017年1月20日

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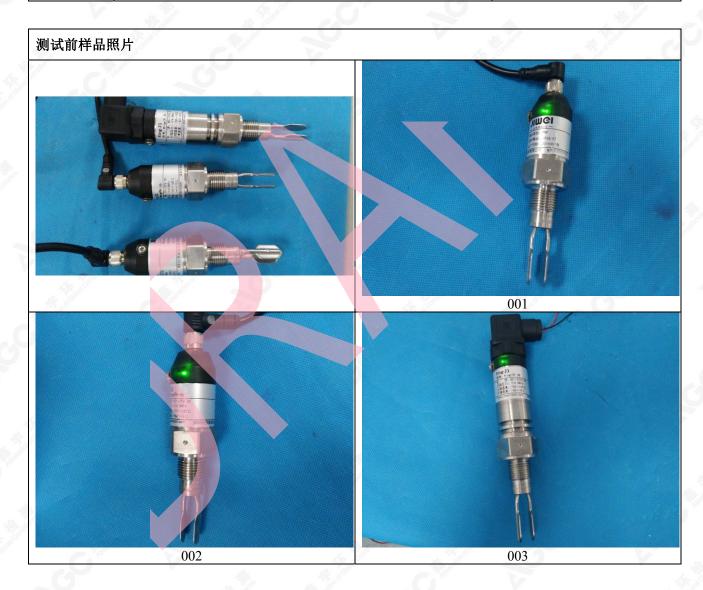


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# 测试报告

#### 6) 测试结果:

样品编号	测试结果	结果判定
001	产品性能正常,外观无裂纹,漆层和镀层无脱落现象。	合格
002	产品性能正常,外观无裂纹,漆层和镀层无脱落现象。	合格
003	产品性能正常,外观无裂纹,漆层和镀层无脱落现象。	合格



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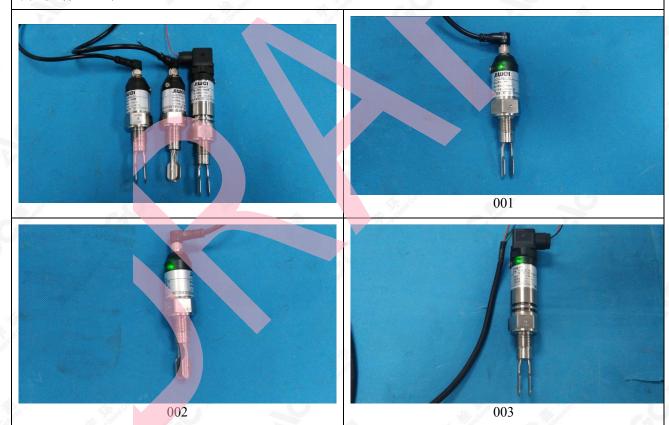
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# 测试报告

#### 测试中样品照片



#### 测试后样品照片



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# 测试报告

#### 测试项目8:正弦振动

1) 环境条件:

温度: 23.5℃,湿度: 57%RH

2) 测试样品信息:

样品编	号	样品名称	型号	4, 5	数量
001			Ring21 01		1pc
002	<b>*</b>	紧凑型音叉液位开关	Ring21 05		1pc
003	The state of the s	C 32/1 S	Ring21 20	ár a garaga	1pc

3) 测试依据: IEC60068-2-6-1981

#### 4) 测试条件:

按IEC 60068-2-6有关规定进行试验。试验期间,受试设备处于非工作状态。试验条件见表8。

试验前,对受试设备进行试验前检测,检测结果应符合要求。

表8 正弦振动试验条件

位移 (mm)	频率范围 (Hz)	时间 (min)	方向
0.3	10→55	5	X,Y,Z

试验后对受试设备进行试验后检测,检测结果应符合要求。产品性能应正常,外观应无裂纹,漆层和镀层 应无脱落现象。

#### 5) 测试仪器:

序号	仪器名称	仪器编号	校准有效期
1	振动台	AGC-RE-E015	2017年1月20日
2	直流电源	AGC-RE-E044	2017年1月20日

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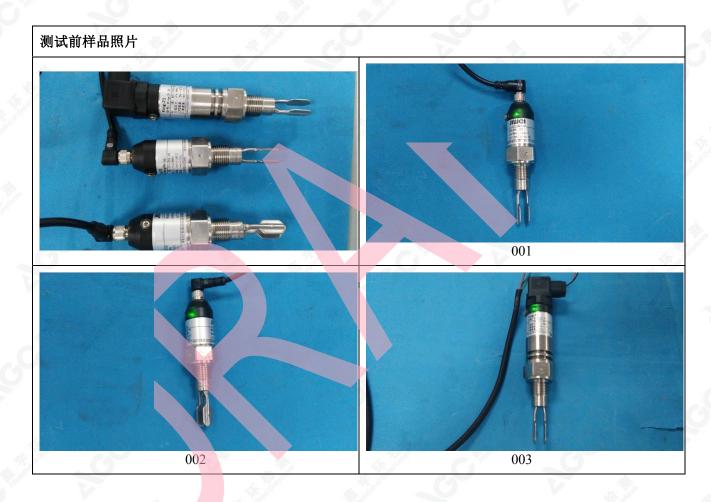


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# 测试报告

#### 6) 测试结果:

样品编号	测试结果	结果判定
001	产品性能正常,外观无裂纹,漆层和镀层无脱落现象。	合格
002	产品性能正常,外观无裂纹,漆层和镀层无脱落现象。	合格
003	产品性能正常,外观无裂纹,漆层和镀层无脱落现象。	合格



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# 测试报告

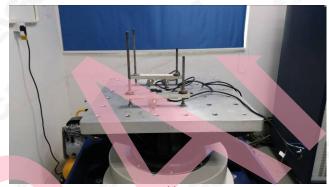
#### 测试中样品照片





X轴

Y轴



#### 测试后样品照片



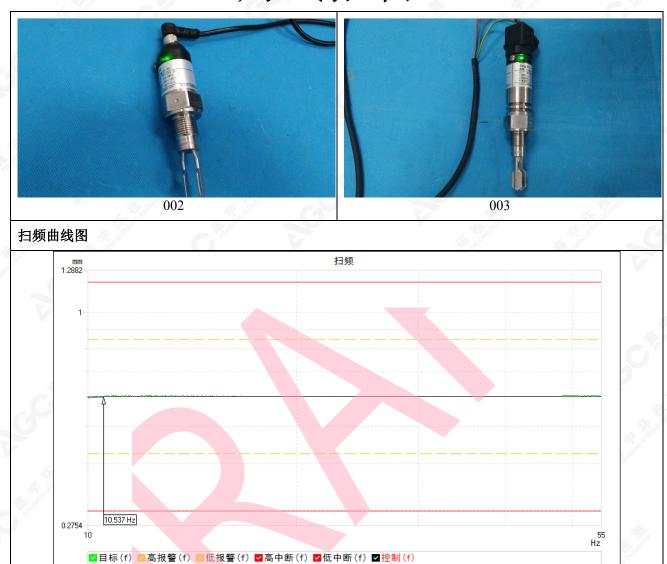


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# 测试报告



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报告版本: V2.0 第 29 页 共 33 页

# 测试报告

#### 测试项目 9: IP 防护测试

1) 环境条件:

温度: 24.5℃,湿度: 56%RH

2) 测试样品信息:

样品编号	样品名称	型号	数量
001		Ring21 01	1pc
002		Ring21 05	1pc
004	区	Ring21 11	1pc
005	紧凑型音叉液位开关	Ring21 03	1pc
006		Ring21 15	1pc
007	4,500	Ring21 07	1pc

- 3) 测试依据: IEC60529-2013
- 4) 测试条件:
  - 1. IP6X 测试条件:
    - (1) 对样品进行抽负压,每小时抽气量低于 40 倍外壳体积,抽气速率: 40mL/min,样品壳内气压与壳外气压≤2kpa;
    - (2) 启动吹尘,降尘测试8小时;
    - (3) 防尘箱粉尘含量: 2kg/m³。
    - (4) 测试后,样品内部应无粉尘进入
  - 2. IPX5 测试条件:
  - (1) 转盘速度: 1RPM;
  - (2) 喷嘴内径: 6.3mm;
  - (3) 水流量: 12.5L/min;
  - (4) 喷嘴与样品距离: 2.5米~3米;
  - (5) 测试时间: 3分钟。
  - (6) 测试后,样品内部应无水进入或带电部位无水

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# 测试报告

- 3. IPX6 测试条件:
- (1) 转盘速度: 1RPM;
- (2) 喷嘴内径: 12.5mm;
- (3) 水流量: 100L/min;
- (4) 喷嘴与样品距离: 2.5 米~3 米;
- (5) 测试时间: 3分钟。
- (6) 测试后, 样品内部应无水进入或带电部位无水
- 4. IPX7 测试条件:
- (1) 样品完全浸入水中,样品表面距离水面至少 150mm,样品顶面距离水面至少 1米
- (2) 测试时间: 30分钟。
- (3)测试后,样品内部应无水进入或带电部位无水

#### 5) 测试仪器:

序号	仪器名称	仪器编号	校准有效期
1	防水测试系统	AGC-RE-E020	2017年1月20日
2	防尘试验箱	AGC-RE-E018	2017年1月20日
3	直流电源	AGC-RE-E044	2017年1月20日

#### 6) 测试结果:

样品编号	测试项目	测试结果	结果判定
001	IP6X	测试后, 目视样品内部无粉尘进入	合格
002	IP6X	测试后,目视样品内部无粉尘进入	合格
005	IP6X	测试后,目视样品内部无粉尘进入	合格
004	IPX5	测试后,目视样品内部无水进入	合格
007	IPX6	测试后,目视样品内部无水进入	合格
006	IPX7	测试后,目视样品内部无水进入	合格

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# 测试报告

#### 测试前样品照片





#### 测试中样品照片





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# 测试报告



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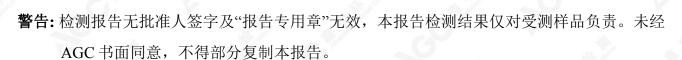


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# 测试报告

\*\*\* 报告结束 \*\*\*

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