

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

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

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测试报告

测试要求

测试顺序	测试项目
1	低温储存
2	低温工作
3	高温储存
4	高温工作
5	冷热冲击
6	交变湿热
7	恒定湿热
8	正弦振动
9	IP防护测试

DR

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测试报告

测试项目 1: 低温储存

1) 环境条件:

温度: 25.1°C, 湿度: 58%RH

2) 测试样品信息:

样品编号	样品名称	型号	数量
001	紧凑型音叉液位开关	Ring21 01	1pc
002		Ring21 05	1pc
003		Ring21 20	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 (°C)	恒温时间 (h)	贮存时间 (h)	变化速率 (°C/min)	试验允差 (°C)
-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°C/min 的温度变化速率将试验箱温度降到-40°C, 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

测试前样品照片



001



002



003

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测试报告

测试中样品照片



测试后样品照片



001



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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°C, 湿度: 56%RH

2) 测试样品信息:

样品编号	样品名称	型号	数量
001	紧凑型音叉液位开关	Ring21 01	1pc
002		Ring21 05	1pc
003		Ring21 20	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 (°C)	恒温时间 (h)	工作时间 (h)	变化速率 (°C/min)	试验允差 (°C)
-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

测试前样品照片



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测试报告

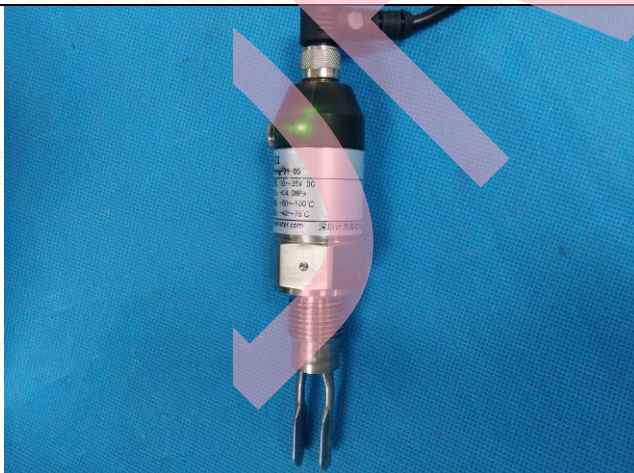
测试中样品照片



测试后样品照片



001



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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°C, 湿度: 53%RH

2) 测试样品信息:

样品编号	样品名称	型号	数量
001	紧凑型音叉液位开关	Ring21 01	1pc
009		Ring21 17	1pc
008		Ring21 08	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 (°C)	恒温时间 (h)	贮存时间 (h)	变化速率 (°C/min)	试验允差 (°C)
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	AGC-RE-E044	2017年1月20日

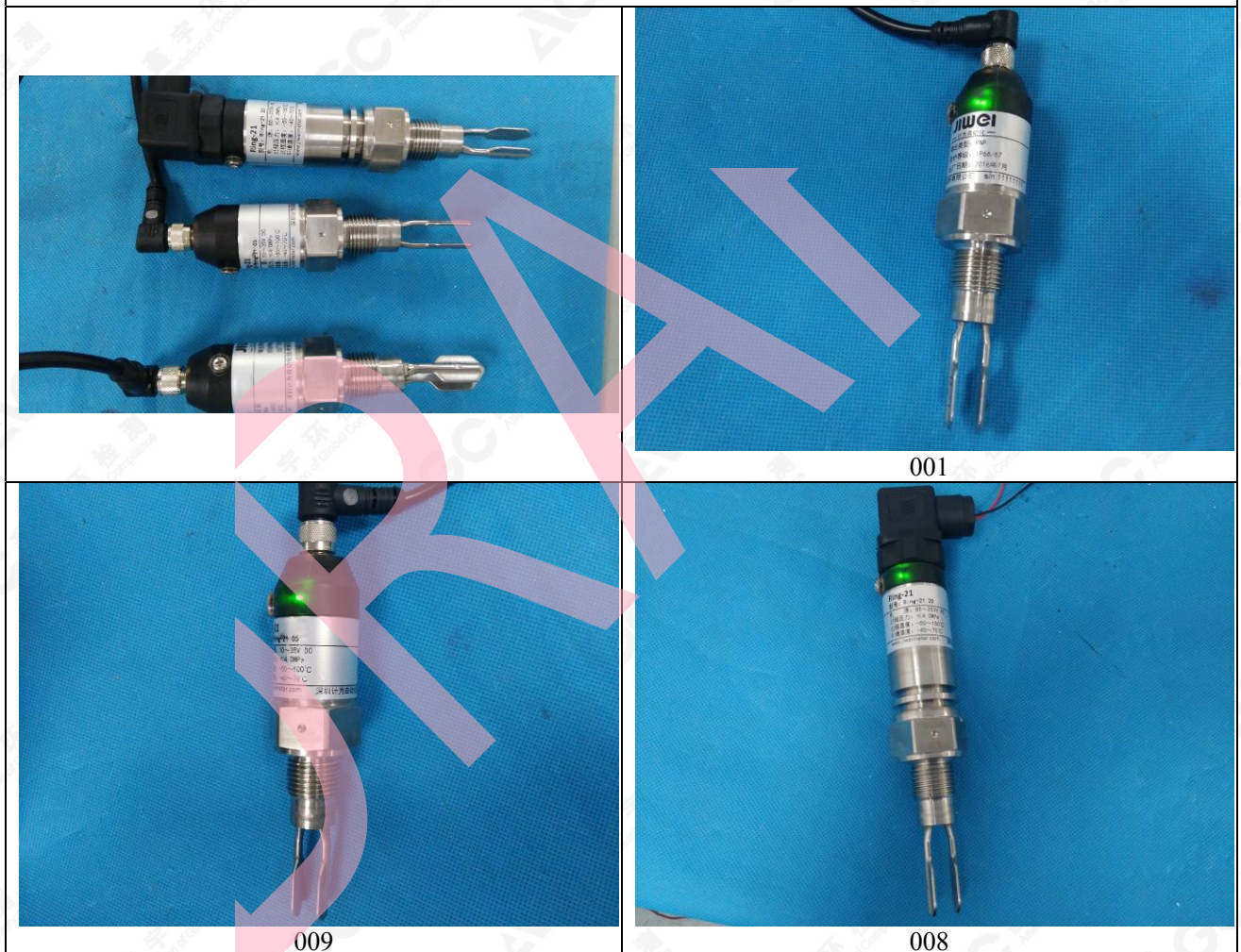
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6) 测试结果:

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

测试前样品照片



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测试报告

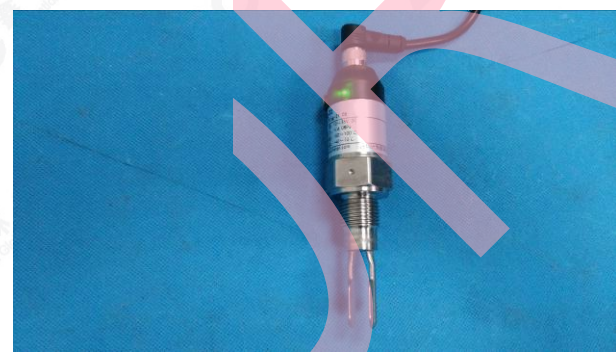
测试中样品照片



测试后样品照片



001



009



008

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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°C, 湿度: 53%RH

2) 测试样品信息:

样品编号	样品名称	型号	数量
001	紧凑型音叉液位开关	Ring21 01	1pc
002		Ring21 05	1pc
003		Ring21 20	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 (°C)	恒温时间 (h)	工作时间 (h)	变化速率 (°C/min)	试验允差 (°C)
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

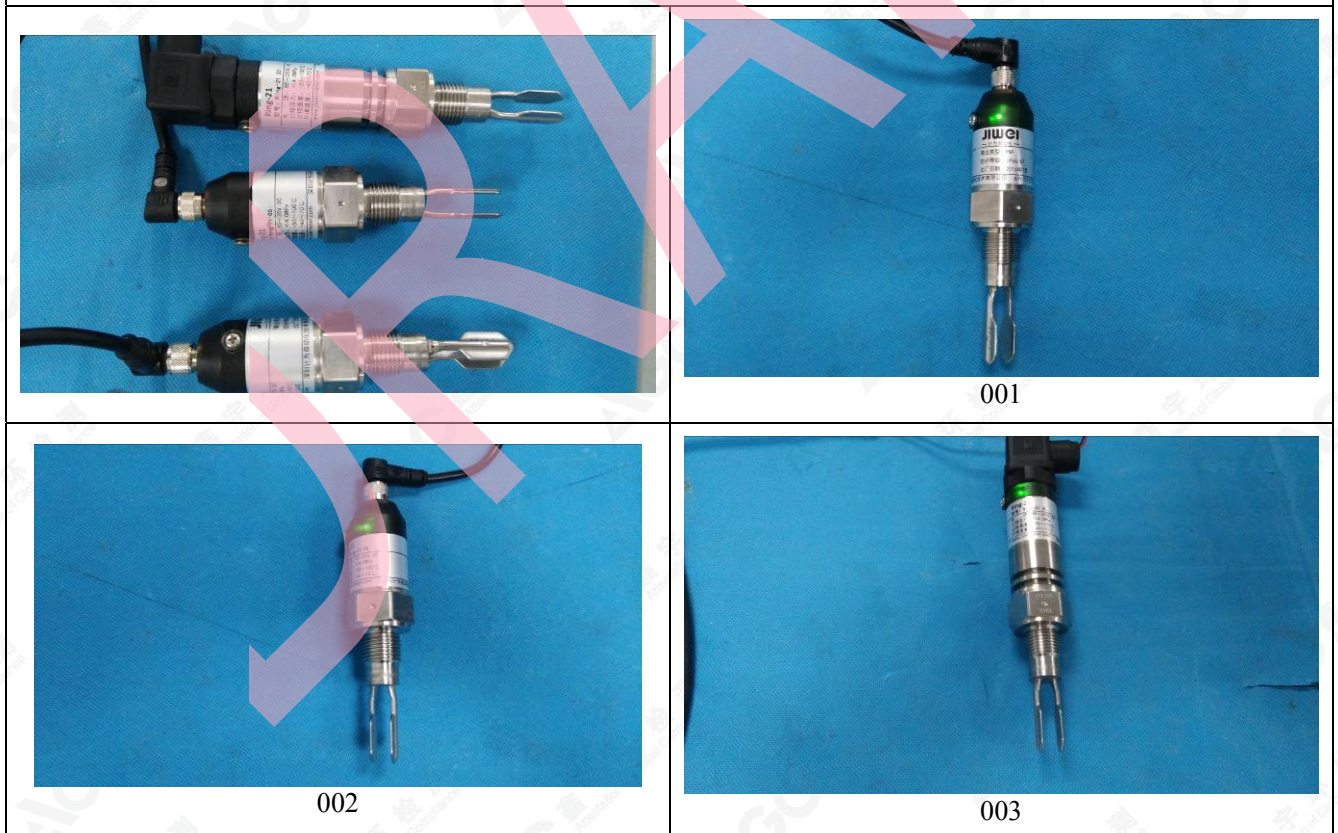
5) 测试仪器:

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

测试前样品照片



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测试报告

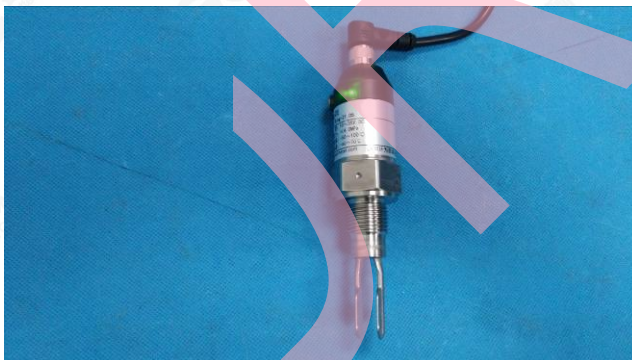
测试中样品照片



测试后样品照片



001



002



003

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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°C, 湿度: 53%RH

2) 测试样品信息:

样品编号	样品名称	型号	数量
001	紧凑型音叉液位开关	Ring21 01	1pc
002		Ring21 05	1pc
010		Ring21 18	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 (°C)	高低各自恒温时间 (h)	转换时间	循环次数	试验允差 (°C)
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	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

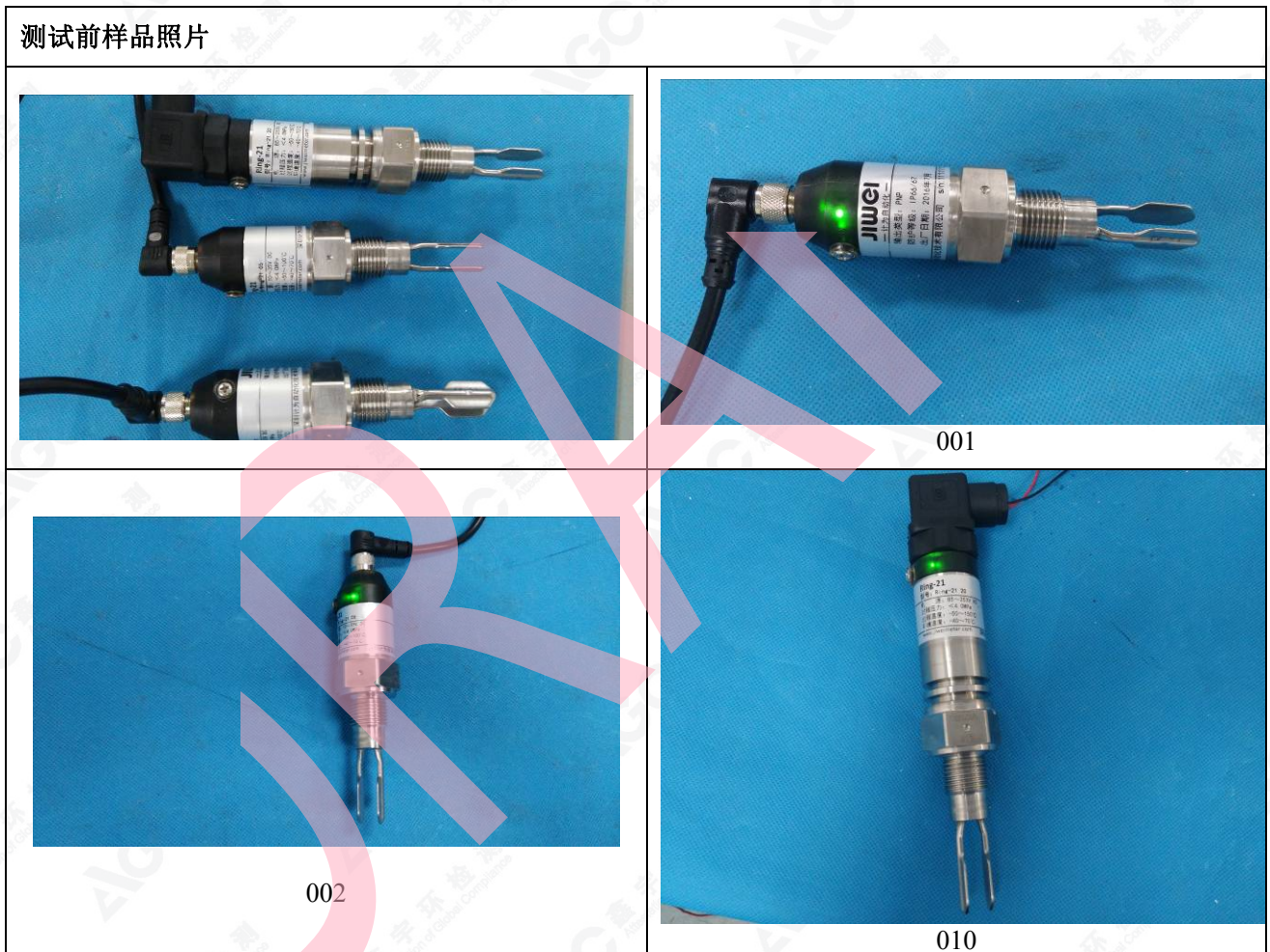
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测试报告

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



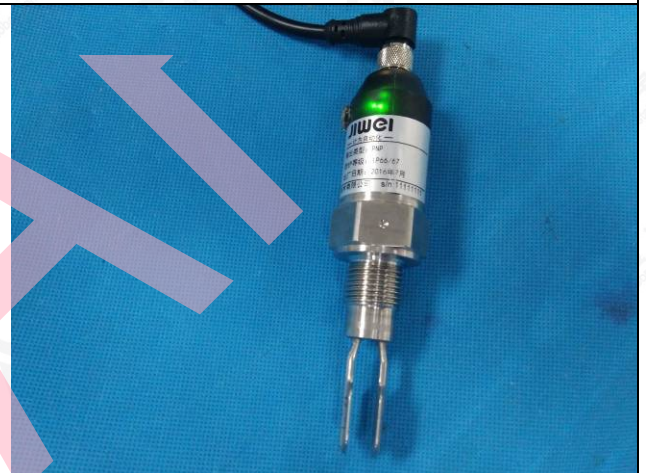
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测试报告

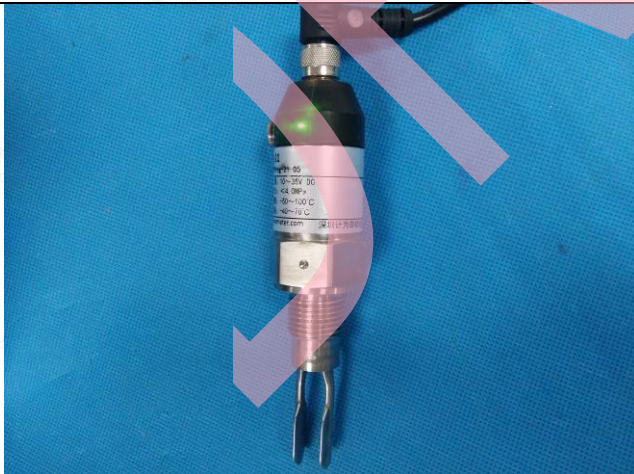
测试中样品照片



测试后样品照片



001



002



010

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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°C, 湿度: 55%RH

2) 测试样品信息:

样品编号	样品名称	型号	数量
001	紧凑型音叉液位开关	Ring21 01	1pc
002		Ring21 05	1pc
011		Ring21 12	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 (°C)	相对湿度 (%)	时间 (h)	周期数	试验允差
升温	25→55	≥95	3	2	温度: ±2°C 相对湿度: ±5%
高温高湿	55	≥95	9		
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°C±2°C、相对湿度为95%±5%, 并保持24h后, 调节试验箱内的温度为25°C、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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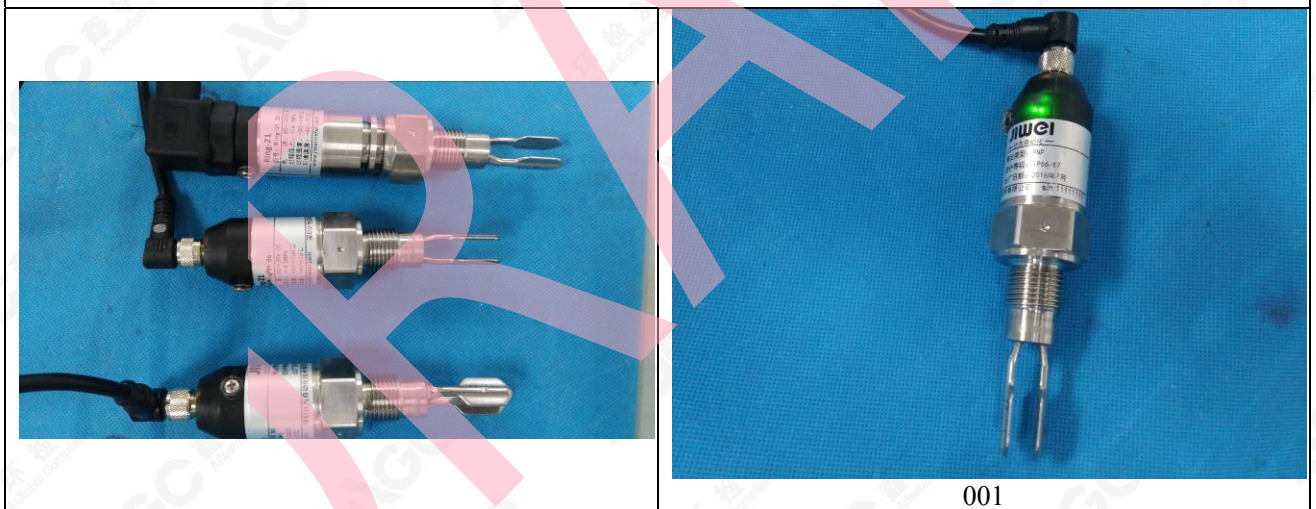
5) 测试仪器:

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, 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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测试报告

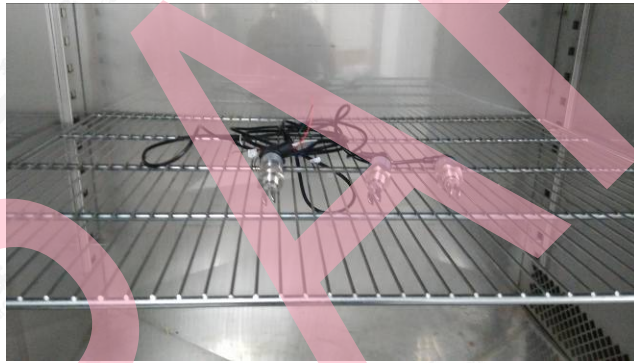


002



011

测试中样品照片



测试后样品照片

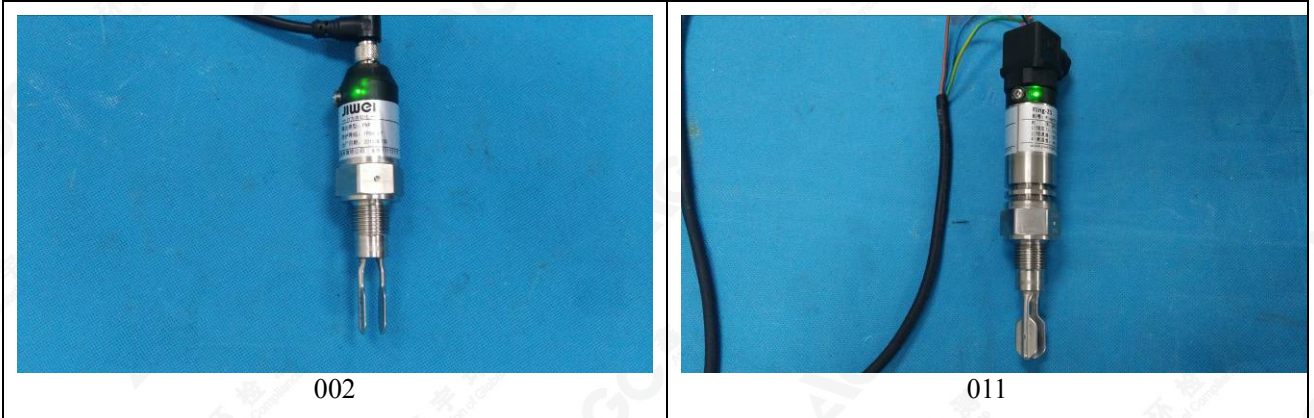


001

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测试报告



DRAFT

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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°C, 湿度: 57%RH

2) 测试样品信息:

样品编号	样品名称	型号	数量
001	紧凑型音叉液位开关	Ring21 01	1pc
002		Ring21 05	1pc
003		Ring21 20	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 (°C)	相对湿度 (%)	时间 (h)	试验允差
40	≥95	48	温度: ±2°C 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

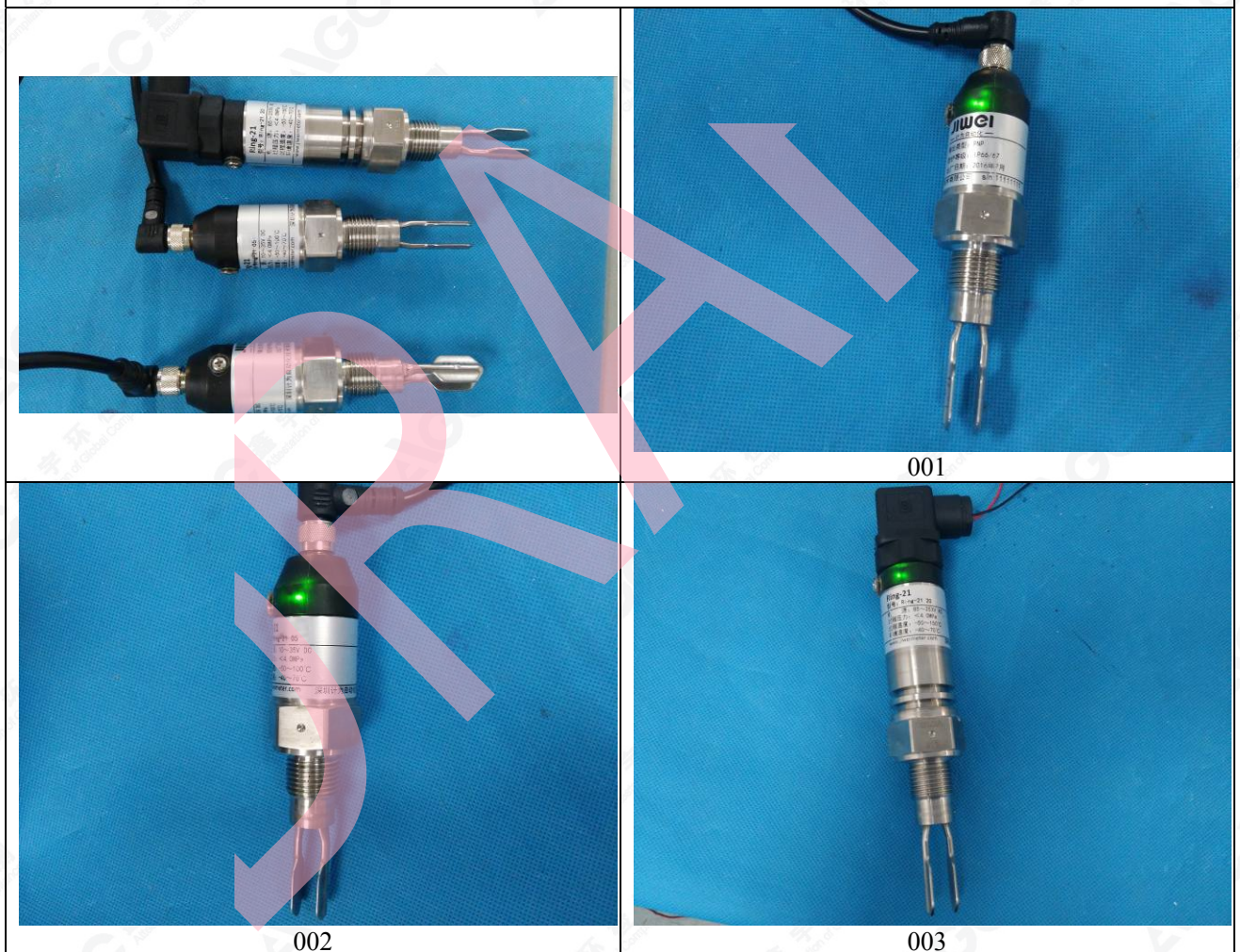
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测试报告

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

测试前样品照片



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测试报告

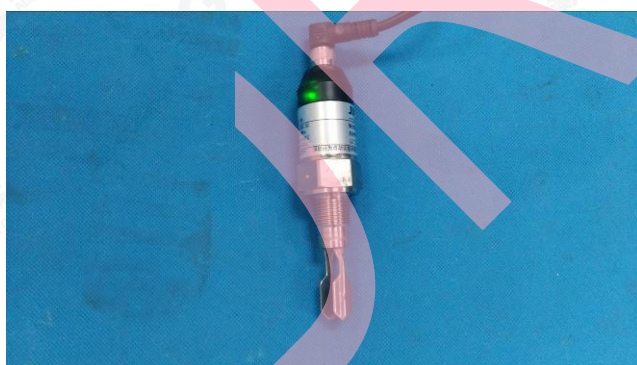
测试中样品照片



测试后样品照片



001



002



003

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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°C, 湿度: 57%RH

2) 测试样品信息:

样品编号	样品名称	型号	数量
001	紧凑型音叉液位开关	Ring21 01	1pc
002		Ring21 05	1pc
003		Ring21 20	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

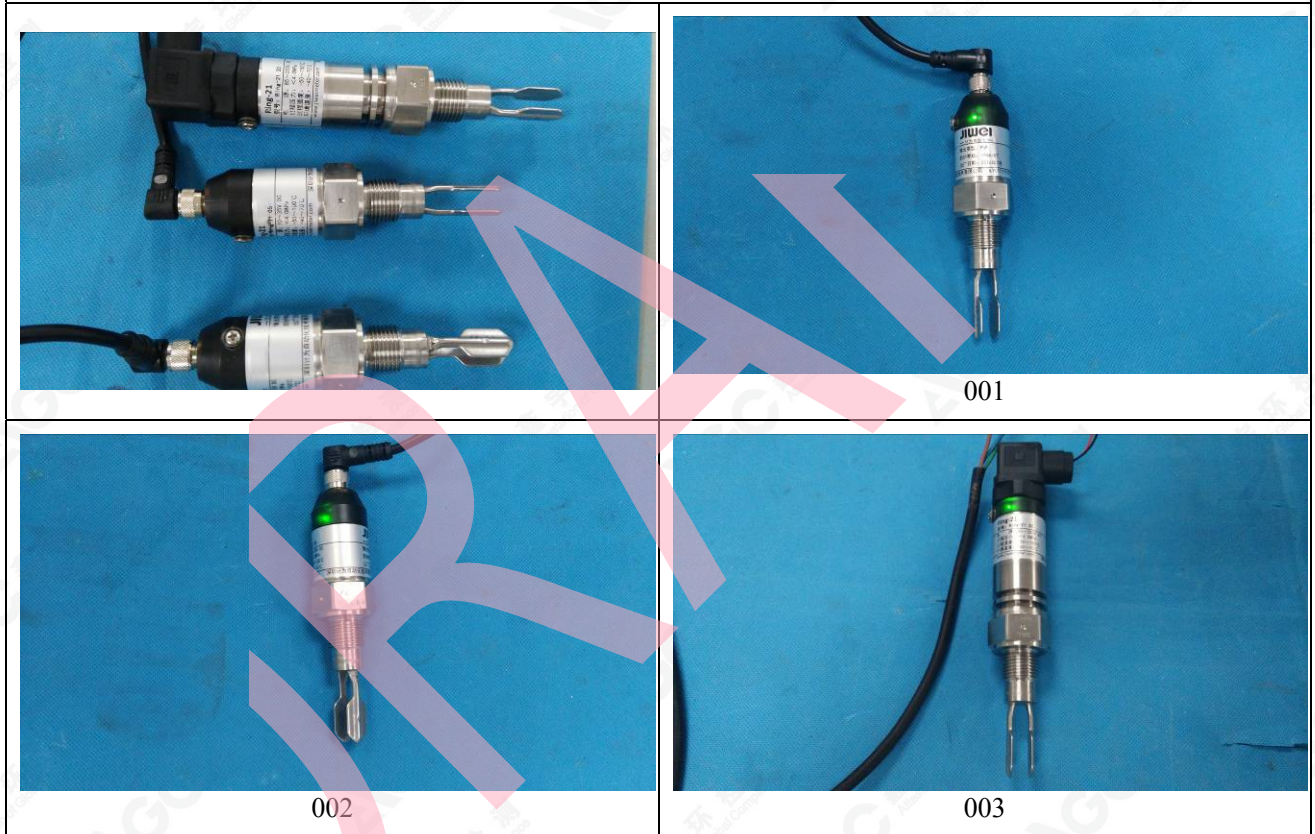
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测试报告

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

测试前样品照片



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测试报告

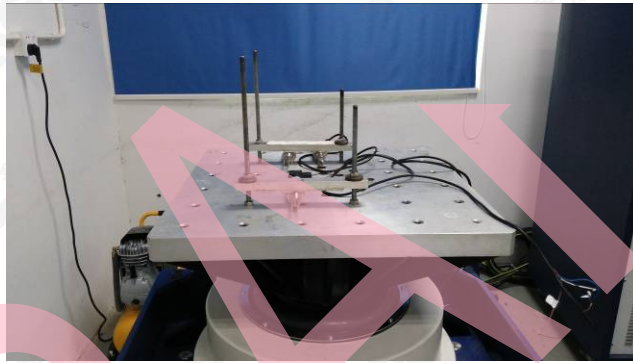
测试中样品照片



X轴



Y轴



Z轴

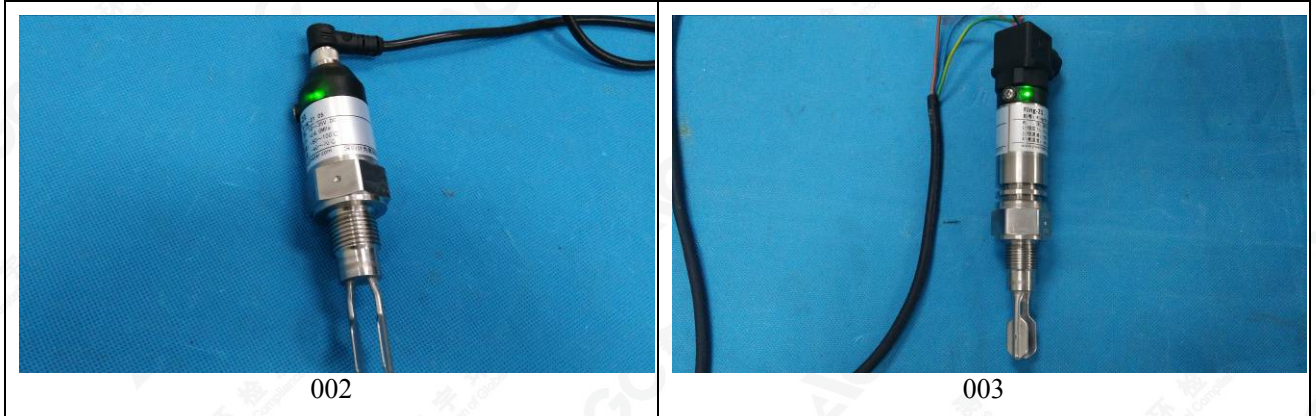
测试后样品照片



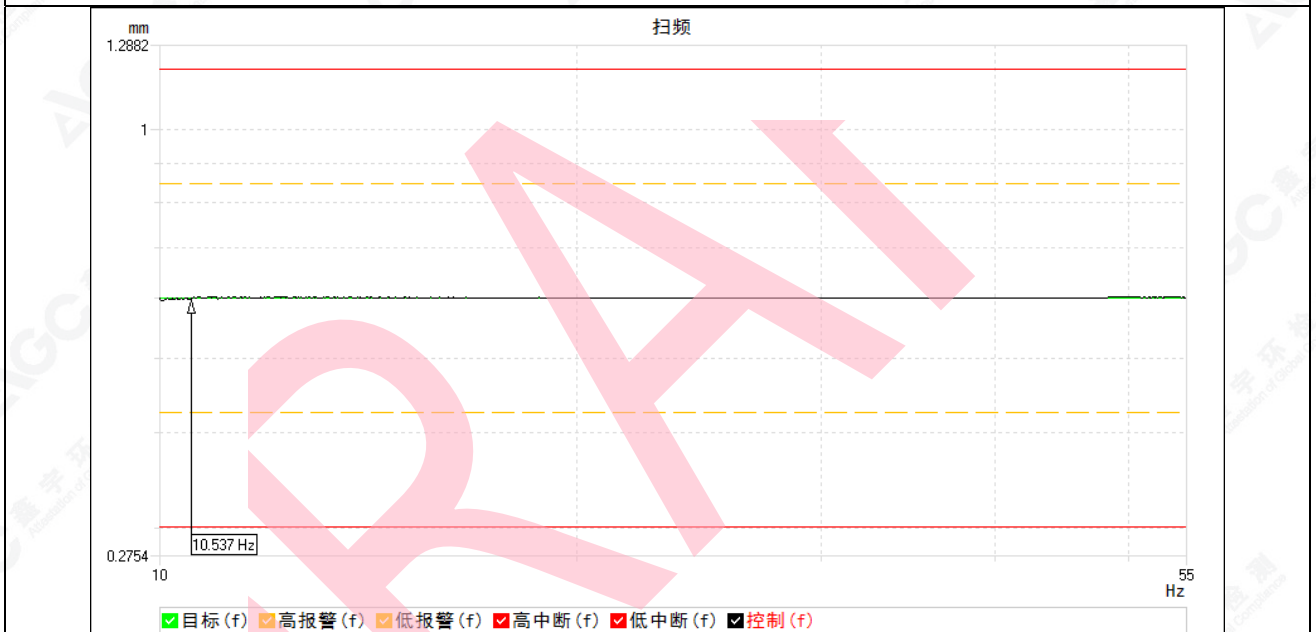
001

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测试报告



扫频曲线图



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测试报告

测试项目 9: IP 防护测试

1) 环境条件:

温度: 24.5°C, 湿度: 56%RH

2) 测试样品信息:

样品编号	样品名称	型号	数量
001	紧凑型音叉液位开关	Ring21 01	1pc
002		Ring21 05	1pc
004		Ring21 11	1pc
005		Ring21 03	1pc
006		Ring21 15	1pc
007		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 ≤ 2 kpa;
- (2) 启动吹尘, 降尘测试 8 小时;
- (3) 防尘箱粉尘含量: 2kg/m^3 。
- (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

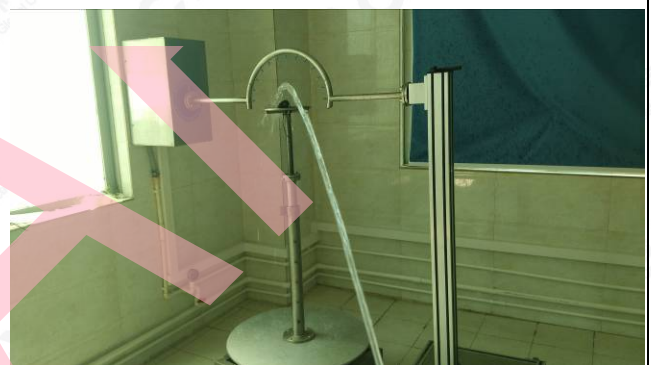
测试前样品照片



测试中样品照片



IP6X



IPX5



IPX6



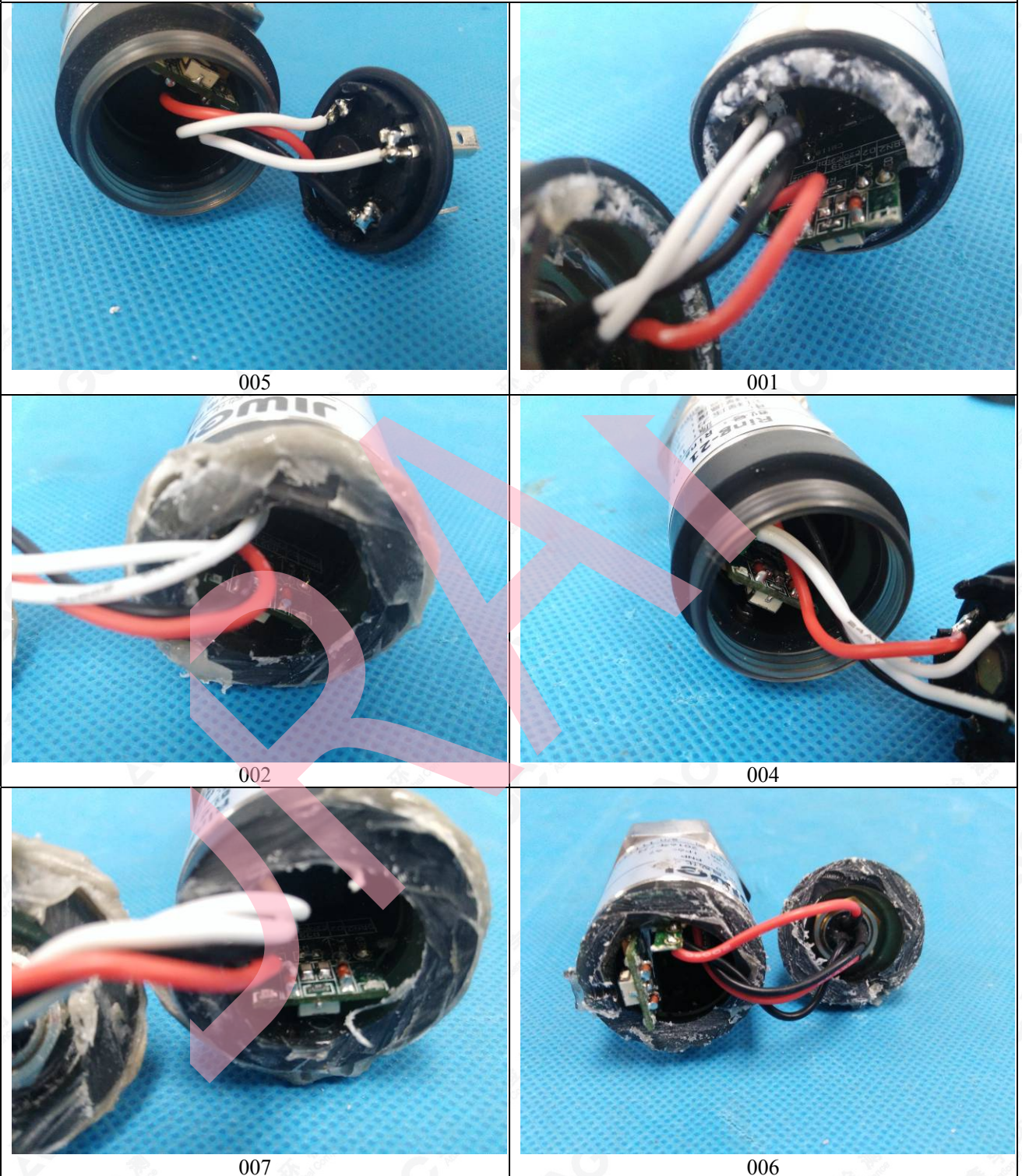
IPX7

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测试报告

测试后样品照片



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测试报告

*** 报告结束 ***

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