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# 东莞市铨伦实业有限公司

Erlang Technology Co., LTD

## 样品承认书

Sample Confirmation

客 户TO. \_\_\_\_\_ LIVPURE  
品 名Article \_\_\_\_\_ TDS传感器  
规 格Item \_\_\_\_\_ TDS-37  
图 号Drawn NO. \_\_\_\_\_ 2018091403  
日 期Date \_\_\_\_\_ 2018.09.14

东莞市铨伦实业有限公司 Erlang Technology Co., LTD	
承办 Approved by	邹远华
审校 Revised by	
核准 Handled by	

客户承认章 Recognition Stamp of Customer	
承办 Approved by	
审校 Revised by	
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# TDS-37传感器规格书

规格书编号:2018091403

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## 1. 定义:

本产品通过测量水介质间的导电率从而间接反映出TDS值, 判定水质纯净度。

This product indirectly reflects the TDS value by measuring the conductivity between the water medium, and determines the purity of water quality.

## 2. 使用范围:

本产品适用于检测水质等水处理设备

This product is suitable for testing water treatment equipment such as water quality.

## 3. 规格尺寸:

参照3/4规格图

## 4. 技术要求:

4-1 额定电压 Rated voltage	5V DC/AC
4-2 推荐工作电流 Recommended working current	$\leq 10 \mu A$
4-3 最大工作电流 Maximum working current	$\leq 10mA$ (电流越大, 使用寿命越短) (The larger the current, the shorter the service life.)
4-4 电极间开路电阻 Open circuit resistance between electrodes	$\geq 5M \Omega$
4-5 电极间短路电阻 Short circuit resistance between electrodes	$\leq 400m \Omega$ (电极直接接触) (Direct contact of electrodes.)
4-6 电极到外壳电阻(绝缘电阻) Electrode to case resistance (insulation resistance)	$\geq 5M \Omega$
4-7 适用介质 Applicable medium	水(符合GB5749标准) Water (Conform to GB5749 standard)
4-8 使用温度范围 Temperature range	0-60°C (不结冰) 0-60°C (No ice)
4-9 使用压力范围 Pressure range	0-0.8MPa
4-10 电气强度 Electrical strength	500V AC/min/50Hz, 无闪络与击穿 No flashover and breakdown

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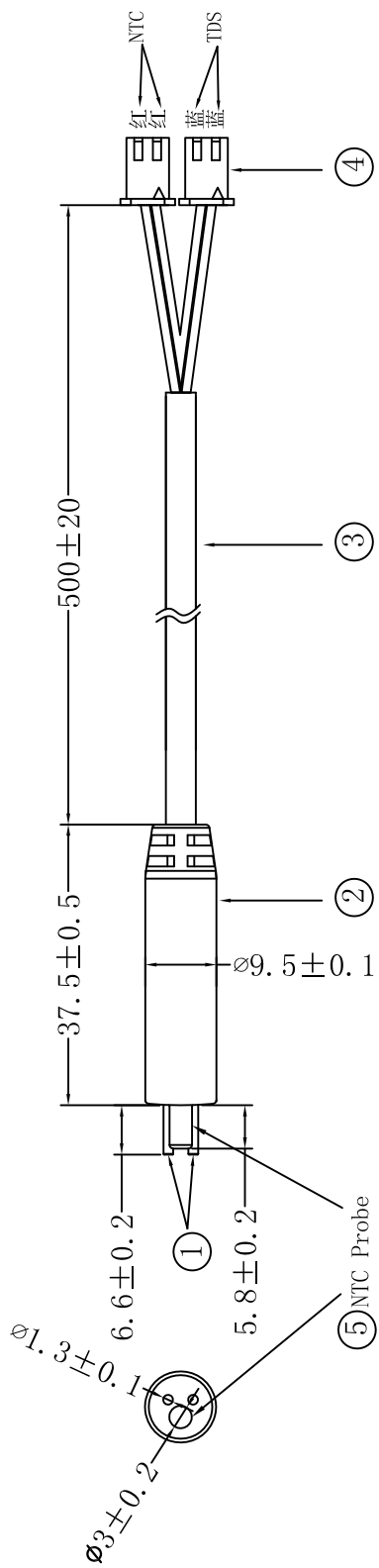
4-11	耐寒性能 Cold resistance	在温度 $-20\pm 3^{\circ}\text{C}$ 下放置96h后, 在常温下放置1h, 性能满足要求 After placing 96 hours at temperature $-20\pm 3^{\circ}\text{C}$ and placing 1h at room temperature meet the requirements.
4-12	耐热性能 Heat resistance	在温度 $80\pm 3^{\circ}\text{C}$ 下放置96h后, 在常温下放置1h, 性能满足要求 After placing 96 hours at temperature $80\pm 3^{\circ}\text{C}$ and placing 1h at room temperature meet the requirements.
4-13	恒定湿热试验 Constant humidity heat test	在温度 $40\pm 3^{\circ}\text{C}$ 、相对湿度为 $93\%\pm 3\text{RH}$ 的环境下放置96小时, 待干燥后其电气性能仍符合要求 For 96 hours at a temperature of $40\pm 3$ and a relative humidity of $93\%\pm 3\text{RH}$ , after drying, its electrical properties still meet the requirements.
4-14	盐雾试验 Salt spray test	在环境温度 $35\pm 3^{\circ}\text{C}$ 用 $5\pm 0.1\%$ 的盐水喷雾环境放置192h, 试验结束后无生锈、明显腐蚀现象 At ambient temperature of $35\pm 3^{\circ}\text{C}$ centigrade, $5\pm 0.1\%$ salt water spray was applied to the environment for 192 hours, there is no rust and obvious corrosion after the test.
4-15	水力循环(耐水锤) Hydraulic cycle (Water resistant hammer)	可以承受0-1.04MPa 10万次水锤试验无变形、损坏, 不得出现渗漏水现象 It can withstand 0-1.04MPa and 100 thousand water hammer test without deformation, damage, no leakage phenomenon.
4-16	密封性 Sealing property	可以承受1.2MPa静态水压不变形、不损坏, 各连接部位无渗漏水现象 It can withstand static water pressure of 1.2MPa without deformation or damage, and there is no leakage phenomenon at all joints.
4-17	零压密封性 Zero pressure seal	在0-0.003Mpa进水压力下, 无渗透、无漏水现象 Under 0-0.003Mpa influent pressure, no leakage and no leakage.
4-18	爆破压力试验 Burst pressure test	进水水压升至2.76MPa时, 塑料外壳无损坏、变形现象 When the inlet water pressure rises to 3.2MPa, the plastic case is not damaged or deformed
4-18	引出端强度 Terminal tensile strength	应能承受30N/10s 以上的拉力。 It should be able to withstand more than 30N/10s tension.
4-19	外观要求 Appearance requirements	探头表面平滑, 无划伤、裂痕、凹陷、弯曲等不良, 塑料外壳无污渍、损伤、缺料等不良 The probe surface is smooth, no scratches, cracks, depressions, bending and other bad, no stains, damage, material shortage and other bad plastic shell

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[ 规格尺寸 ]



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## [ 材 料 ]

6	PCB PCB	FR-4		
5	热敏电阻 thermistor	PX3-42H-\$S2	1	
4	P架 connector	XH2.5 2P 红色/蓝色 Red/Blue	2	
3	线材 wire	UL2464 24AWGx4c 黑色外被线 UL2464 24AWGx4c Black cable wire	1	
2	本体 Stem	PP材质 Materia PP	1	
1	探针 probes	本色钛材质 Ti material	2	
序号 No.	名称 Item	物料规格 Material Description	数量 Quality	备注 Remark

技术要求:1. 外观要求:

a:探针采用钛材质,表面平滑,无裂痕、凹陷、弯曲等不良.

b:外壳表面无损伤、污渍、缺损等不良.

2. 热敏电阻要求: 标称阻值 $R_{25}=10K \pm 1\%$   $B_{25}/85=3435K \pm 1\%$ .

3. 绝缘性能: 500VAC/1min/50Hz, 开关无闪络与击穿

4. 工作电压 $\leq 5V$ (此电压施加在探针两端的电压), 工作电流 $\leq 10mA$ (电流越小, 探针使用寿命越长).

5. 所有物料使用均需符合RoHS标准。

包装要求:依据公司自制定包装要求包装进行出货。

Technical requirement:

1. Appearance requirement:

a、The material of the TDS probe is Ti, the surface is smooth, no cracks/sunken/bending and other adverse.

b、There is no damage/dirt/defect on Shell surface.

2. Thermistor requirements: nominal resistance  $R_{25}=10K \pm 1\%$   $B_{25}/85=3435K \pm 1\%$

3. Insulation performance: 500VDC, switch no flashover and breakdown.

4. Working voltage $\leq 5V$ (this voltage is applied across the pin's voltage) work current $\leq 10mA$  (the smaller current will be longer life)

5. All materials are comply with RoHS

RoHS

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