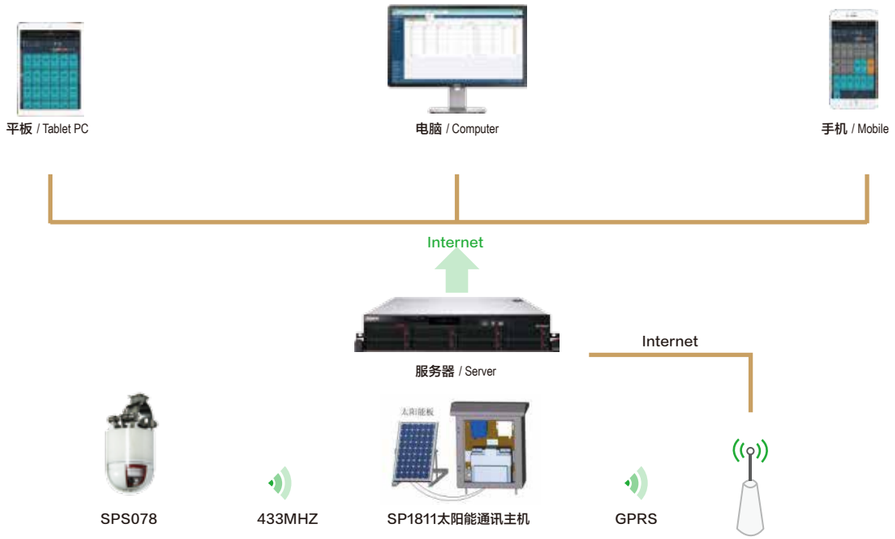
系统TOP图 /TOP diagram of system



太阳能通讯主机

项目 / Items	参数 / Parameters
供电方式 / Power Supply Mode	太阳能 / Solar Energy
通讯方式 / Communication Mode	GPRS
安装方式 / Installation Method	支架固定 / Bracket Fix
RF灵敏度 / Sensitivity	-110dbm
工作环境 / Work Environment	-25~+85℃，<95%RH
防护等级 / Grade of Protection	IP67
使用寿命 / Service Life	10年 / Years

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HZSUPER 休普电子 Super Electronic

SPS078 架空型测温暨故障指示器 Overhead temperature measurement and fault indicator

配网是城市和农村供电的载体，配网的稳定性和安全性，直接关系到各个公司和千家万户的供电安全，具有重要的经济价值和社会意义。在早期电网建设时，更加重视的环节是发电和输电，配电和用电环节往往被轻视。近些年国家为配网投入了大量资金进行城网和农网改造，改造了大量线路、开关和变压器等，从硬件方面对配网进行了升级以提升配网的自动化水平。但是，配网架空线路仍有未解决的难题：

1、无法及时掌握配网线路的运行状态

2、线路故障查找难度大

针对上述种情况，我公司基于对配电线路监测的深入研究和长期实践，开发出了SP系列线路测温暨故障指示器，该产品借鉴了国内外相关产品技术优点，在原有故障检测原理的基础上进行了深入研究后，开发出的国内领先的一种综合故障在线监测指示器，解决了接地故障、短路故障和导线接点发热故障检测和查找的难题，也是综合运用无线通信、信息网络及新材料等现代科学发展的新技术而研制出来的一种智能指示器。

Distribution network is the carrier of urban and rural power supply. The stability and security of distribution network is directly related to the power supply security of every company and thousands of households, which has important economic value and social significance. In the early construction of power grid, more attention is paid to generation and transmission, however, the distribution and use of electricity are often overlooked. In recent years, the country has invested a lot of funds to rebuild the city network and the rural network, which transformed a large number of lines, switches and transformers, and upgraded the distribution network from the hardware aspect to improve the automation level of the distribution network. However, the distribution network overhead lines still have unsolved problems:

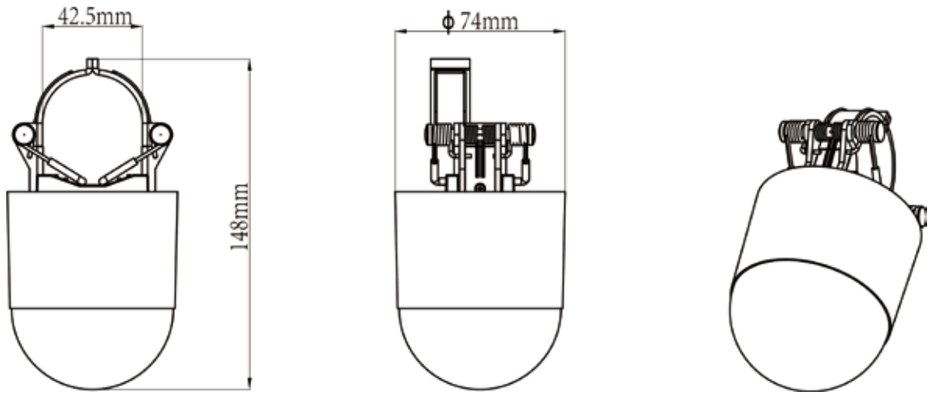
1. Unable to grasp the running state of distribution line in time.
2. When the line is out of order, it is difficult to find.

In view of the above situation, our company developed SP series line temperature measurement and fault indicator, which is based on the distribution line monitoring in-depth research and long-term practice. This product is a kind of comprehensive fault on-line monitoring indicator developed by our company based on the deep research of the original fault detection principle and the technical advantages of related products at home and abroad. It solves the problems of detecting and finding ground fault, short circuit fault and wire contact heating fault. It is also a kind of intelligent indicator, which combines the new technology of wireless communication, information network and new materials, etc.

产品参数 /Parameters of product

项目/ Items	参数/ Parameters
短路电流启动值/Short circuit current starting value	130A（默认）可设置/130A (default) configurable
接地电流启动值/Grounding current starting value	11A（默认）可设置/11A (default) configurable
适用电压等级/Applicable voltage level	6～35 kV
适用负荷电流/Applicable load current	630A
允许通过最大故障电流/Allowable maximum fault current	20kA/4s
负荷测量精度/Load measurement accuracy	3%
温度测量范围/Temperature measurement range	−40℃~125℃
温度测量精度/Temperature measurement accuracy	±1.0℃
供电方式/Power supply mode	感应取电+储能电容+后备电池/ Induction electricity + energy storage capacitor + back-up battery
通信方式/Communication mode	无线射频/RFID
通信距离/Communication distance	≥200米/≥200m
静态功耗/Static power consumption	≤8μA
发射功耗/Transmission power consumption	＜30 mA
复位方式/Reset mode	遥控复位、定时复位/Remote reset, timing reset
动作次数/Number of movements	≥5000次
连续闪光时间/Continuous flash time	≥3000h
工作环境温度/Working environment temperature	−40 ℃～+75 ℃
工作相对湿度/Working relative humidity	≤ 95%
适用导线截面积/Applicable traverse sectional area	16~450mm2
防护等级/Protection grade	IP68
污秽等级/Gradation for surface pollution	Ⅳ级/Grade IV
使用寿命/Service life	10年/10 years

外形尺寸 /Dimension



应用效果图示 / Illustration of application effect