Nanya Underground Temperature Measurement Optical Cable Factory

Overview

This study introduces an alternative system for monitoring the temperature of underground cables using NTC thermistors. AP Sensing was selected to provide a Linear Heat Detection (LHD) solution for Nanya Technology at its Linkou, Taiwan factory. Nanya Technology produces DRAM and recently built a new memory production line at its Linkou factory, with 32 new bus ducts added to the production lines. The operator. Underground electrical conductors, both medium-and high-voltage, play a crucial role in energy infrastructure. Unlike overhead installations, these cables remain hidden, making it harder to obtain key parameters, such as. PURPOSE: A system for measuring temperature of underground power cables is provided to precisely measure the temperature of the underground power cable by utilizing an optical fiber and a temperature distribution measuring device connected to the optical fiber. Most distribution components have been developed with self-diagnostic sensors to realize self-healing, one of the smart grid.

Nanya Underground Temperature Measurement Optical Cable Facto

For real-time checking of cable temperature, DTS, which is the technology used to check the optical cable temperature in an underground distribution system, has been considered.

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This study introduces an alternative system for monitoring the temperature of underground cables using NTC thermistors. Its design allows for ...

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Distributed fibre optic temperature measurement systems are widely used in power cable temperature monitoring due to the advantages of strong resistance to elec

By utilizing the inherent insulation and distributed characteristics of fiber optic, it has the characteristics of long monitoring distance, high reliability, and no electromagnetic interference, ...

This study proposed a sensor module that can monitor the temperature of the power cable joint using a fiber optic sensor. The advantage of using fiber optic sensors is that they are not ...

The operator previously used a daily thermography service to manually inspect the temperature of the bus ducts for safety. However, due to their complex installation layout, this alone did not enable ...

A distributed temperature sensor (DTS) is applied to continuously monitor the temperature of the underground cable. The DTS measurement principle must be based on the response time of the ...

Thermal models and real-time temperature measurement can provide dynamic rating system. And this system allows qualification of actual cable capacity, cable conditions and environmental parameters ...

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