

New Products

High Voltage Cable Diagnosis Service for Smart Industrial Safety

We have started providing a high-voltage cable diagnostic service that utilizes the Internet of Things (IoT) as a solution for electrical maintenance work. In recent years, the electrical infrastructure of factories and buildings has been facing issues such as aging electrical equipment and a shortage of personnel due to the aging of maintenance workers and management engineers.

In order to solve this problem, "smart industrial safety" that utilizes the latest technologies such as remote monitoring using sensors, IoT, and AI has been prompted by the Ministry of Economy, Trade and Industry. Then our high-voltage cable diagnosis service is suitable new one for this.

In order to prevent water-tree degradation and breakage of shielding copper tape which are the main causes of accidents in high-voltage cables, this service monitors abnormalities which are signs of such problems in the sheath insulation and shielding copper tape under live conditions.

Specifically, as shown in Fig. 1, the monitoring device is connected to the ground wire of a high-voltage cable to acquire data, which is then sent to the cloud server on the Internet via a wireless communication line (sample of screen of cloud server is shown in Fig. 2). Then our experienced technicians analyze the data and evaluate the integrity of the cable. These prevent sudden power outages in factories and buildings, contributing to stable operation of equipment and more efficient maintenance work.

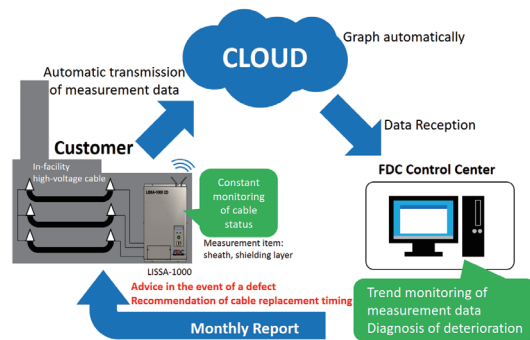


Fig.1. Diagnostic service overview.

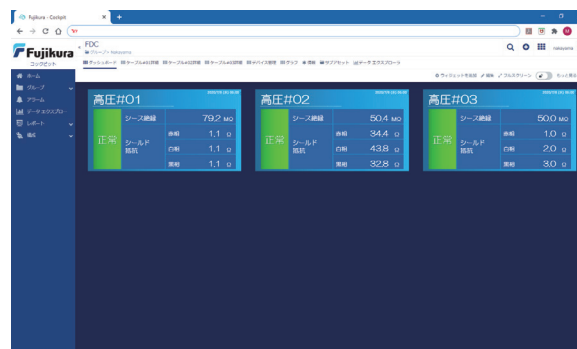


Fig.2. Sample of screen of cloud server.

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