

High sensitivity corona discharge detector

COM-1000FX

The corona discharge detector in the air + The corona discharge detector in oil

In man's body, preventive medicine is important. Teachings of a massive-power-blackout accident. I think that the preventive inspection of electric power equipment before causing a big accident is very important. Considering the immense loss after an accident happens, prior preventive inspection is far advantageous also in respect of cost. It seems that the quality of electric power equipment can be judged if generation of heat and corona discharge which are produced at the time of part degradation or a defect are investigated when it is impossible to check by suspending electric power equipment. COM-1000FX is equipment which hangs a main part on the shoulder, has a detector by hand, and investigates corona discharge. The burden of the hand was reduced as much as possible. There are a function to detect the corona discharge generated from the insulator of a high-voltage power line, a switchboard, etc., and a function to detect the corona discharge inside the high-voltage transformer filled up with oil. AC power supply operation and charge pond operation in which the boost charge circuit was built can be performed. They are the corona discharge of long time, and the optimal corona discharge finder for faulty point investigation observation. Data collection display PC software can also perform network operation. It is also possible to supervise the state of the switchboard of the spot from an office. The check report which took the photograph of the check spot using the digital camera, and combined it with corona discharge detection data can be drawn up.

■ Measurement principle

When the dirt of the insulator of various high-voltage apparatus and a high-voltage power line and they break down, a weak ultrasonic wave is generated simultaneously with corona discharge. The weak ultrasonic wave is detected with a detector. The detected ultrasonic wave is changed so that man's ear may hear, digital conversion of the strength of the amount of emergence of corona discharge is carried out, and it displays on a display for indication.。



Corona discharge detector in air



Corona discharge detector in oil



Corona discharge detector in air

■ Corona discharge detector in air

- Fault investigation of the high-voltage insulator of a power line
- Investigation of the high-voltage apparatus inside a switchboard
- Fault investigation of various motors
- Fault investigation of various high-voltage transformers
- The corona discharge operation check of an ion generator

■ Corona discharge detector in oil

- Fault investigation of the various high-pressure transformers filled up with oil
- Investigation of the corona generating situation inside the sealed apparatus

Specification

■ Display for indication:16-figure two-line character STN LCD	■ Receiving sensitivity :64-step digital volume
■ Detection frequency :40 kHz of ultrasonic waves	■ Personal computer output :Serial communication (RS-232C)
■ Beep output :Headset jack output	■ Analog output :BNC connector output
■ Sensor :Sensor of temperature and humidity	■ Target selection :Red laser (1 mW or less of outputs)
■ Automatic power off :Those with a time setting	
■ Power consumption :About 1.7W	
■ Power supply :DC12VAC adapter(AC100V-AC240V) Nickel hydride battery	
■ Operating time :The 10-hour use by one charge is possible	
■ Main part size :85mm x 140mm x 200 mm (a projection thing is not included)	
■ Main part weight :About 1.6 kg	
■ Detector size :Corona detector [100 x 300 mm] (at the time of sensor removal)	Corona detector in oil [50 x 64 x 40 mm]
■ Detector weight :Corona detector [about 900g]	Corona detector in oil [about 100g]
■ Accessories :Exclusive aluminum suitcase case 、 Main part case 、 Connecting cable 、 Headphone.	
:Data collection and PC software only for a display (The contents of accessories change with models)	

Development manufacturer

COM SYSTEM ,INC.

〒 196-0003 2-3-17, Matsubara-chou, Akishima-City, Tokyo, Japan

TEL 042-543-9062 FAX 042-543-9570

http://www.com-system.co.jp/ E-mail:com@com-system.co.jp