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## EnergoM-PD3000 PARTIAL DISCHARGE MONITOR

#### SWITCHGERA PROTECTION RELAY

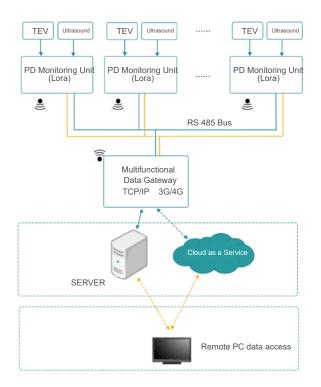


#### **Introduction**

Partial discharge is a kind of pulse discharge, which will produce a series of physical phenomena and chemical changes such as light, sound, electrical and mechanical vibration in the interior and surrounding space of power equipment. When insulation defects appear inside high-voltage electrical equipment, it will be accompanied by the generation of partial discharge signals.

EnergoM-PD3000 partial discharge monitor can be used with UHF sensor, TEV sensor, Ultrasonic sensor and online detection of partial discharge of high voltage equipment such as transformers, high voltage switchgear, GIS, and cable joints. Easy to carry, fast measurement, strong anti-interference ability, easy to use on site.

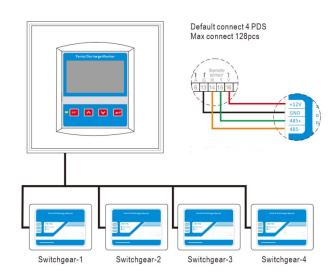
#### Working Principle



#### **i** Main Features

- Wall-mounted installation.
- Alarm multi-level threshold setting.
- Waveform data recording function.
- RS 485, Modbus-RTU, SCADA systems.
- Sensor detects TEV and audible ultrasonic.
- Automatic PD data acquisition and analysis.
- 2\*DO NC & NO contact for external alarm trig.
- Anti-interference performance and high measurement accuracy.
- Joint detection of partial discharge signals by transient earth waves.
- HMI supports max 96pcs sensor, optional wireless, and wired(RS485) connection.

#### Wiring Method



### **i** Technical Characteristics

85-265Vac/dc, 20-60Vdc Optional
<6W
RS-485, MODBUS-RTU
2* NC & NO, passive node
-10 ~ +60°C
RH 20% ~ 95% (No condensation)
96*96*85mm or 144*144*100mm
91*91mm or 138*138mm
12Vdc or 2000mAh build in battery*
433MHz~2.4GHz optional
Up to 80m (260 feet)
<10mW
4* strong magnet, wall mount
0~60 dBmV
3~100MHz
1dBmV / ±1dBmV
-7dBµV~68dBµV
1dB / ±1dB
-65 dB (0 dB=1 volt/µbar rms SPL)
40 KHz