1. *i*GMS-20M

<*i*GMS-20M>

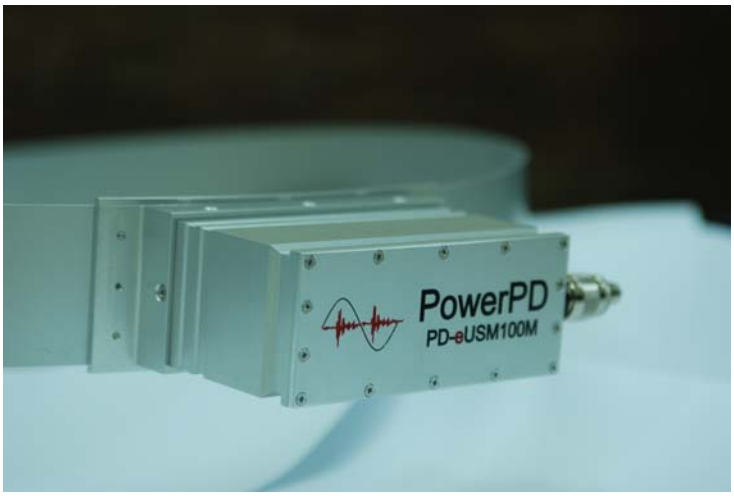
1.1 Product Name : PD-*i*GMS-20M

The PD-*i*GMS-20M is a online diagnostic system which periodically monitors partial discharge in GIS (Gas insulated switchgear). PD-*i*GMS will detect and analyze UHF signals by UHF Sensor module with built in LNA (Low noise amplifier) and frequency modulator to distinguish between real PD (partial discharge) signals and external noise signals similar to that of partial discharge signals. Also the PD-*i*GMS-20M provides software which is designed to analyze, manage, and interpret measured data and can be set to report daily, weekly or monthly.

1.2 Specification

Analog Input channel	Max 20 Ch (for *e*USM100M)
Surge Protection	Built In surge protector
Communication	RS-422 (Multi-Drop, LAN(TCP/IP)
Display	TFT-LCD (800 600)
Operation Mode	Remote/Manual Mode
Channel Gain	0dB 40dB, Software Control
Channel Sampling	20 ch simultaneously sampling
Level Display	4 LED Display per Channel
External Trigger	Support external trigger Input/output
User Interface	Touch Screen
Input Power	AC 110V/220V, 50Hz 60Hz
Size	364(W) 147(H) 331(D), mm
Weight	

2. **UHF Antenna Sensor Module**



<PD-*e*USM100M>

2.1 Product Name : PD-*e*USM100M

2.2 Description : UHF(Ultra-High-Frequency) sensor module includes RF(Radio Frequency) signal conditioner for partial discharge signal detection.

2.3 Size : 120 x 80 x 70 (mm)

2.4 Set composition : GIS Spacer Sensor, Bracket, Fixing-tie

2.5 Case material : Aluminum, Copper

2.6 Electrical characteristics

Sensitivity	< 5pC
Sensor output power	-10dBm (TBD)
ESD	15kV
Connector impedance	50
External connector type	N-type
Operation frequency	200MHz 1500MHz
Operation temperature	-30 80
Bias voltage	8V 12V
Current (average)	< 65mA
Phase shift	Non-invert

2.7 Frequency response characteristics