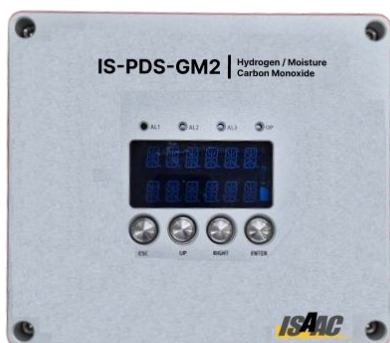


IS-PDS-GM2

On-line Dissolved Gas Monitor for Transformer

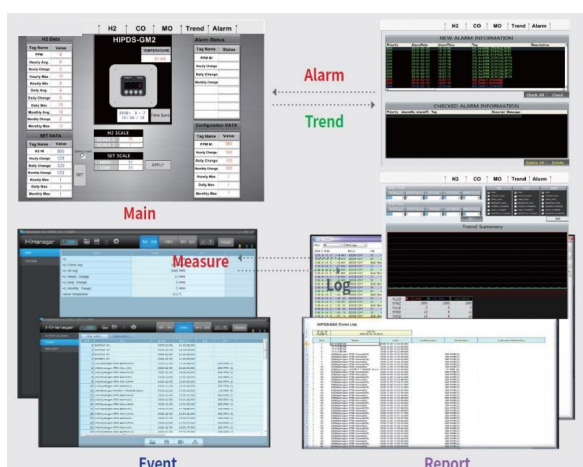


Insulating materials used in devices such as oil-immersed transformers (e.g., insulating oil, paper, pressboard, and tape) decompose due to the heat generated by transformer overload or faults, producing hydrogen (H₂) and hydrocarbon gases in the process. IS-PDS-GM2 is a device that monitors and analyzes the degradation of transformer insulating oil, measuring and monitoring hydrogen (H₂), carbon monoxide (CO), and moisture in real-time, online. This enables early detection of internal degradation and insulation issues, helping to prevent major accidents and ensuring optimal transformer operation. Particularly, when installed in existing or aging transformers showing potential problems or signs of degradation, the IS-PDS-GM2 accurately monitors early abnormal conditions in real-time, improving transformer operation and extending its service life.

Technical Specification

Hydrogen	Measurement range(25 ~ 5,000 ppm), Accuracy(20% of reading or 25 ppm)
Carbon Monoxide	Measurement range(0 ~ 10,000 ppm), Accuracy(20% of reading or 25 ppm)
Moisture	Water activity(0...1 aw), Accuracy at 20°C(±0.02 aw(0...09 aw), ±0.03 aw(0.9...1 aw))
Operating Temperature	-40°C ~ 55°C
Storage Temperature	-40°C ~ 80°C
Oil Temperature Measurement	-40°C ~ 105°C
Alarm Relays	3 relays
Communication Protocols	Modbus / RS485
Weight / Size	8 kg, 235mm(H) x 260mm(W) x 203mm(D)

HMI Screen & Manager Application



On-Site Installation



JeJu KeumArk FR ESS / PowerMax(22.9kV)



JeJu KeumArk FR ESS / PowerMax(22.9kV)



Algeria OUMACHE-3 CCPP / Hyundai(420kV)



Algeria OUMACHE-3 CCPP / Hyundai(420kV)