



Wireless gas density sensor for integration into IIoT systems

Klingenberg, August 2024. WIKAI supports the digitalisation of gas-insulated switchgear with the new model GD-20-W gas density sensor. The wireless device with integrated battery and radio module allows for easy integration into IIoT environments.

The sensor communicates the values measured for gas density, temperature and pressure via the LoRaWAN[®] network protocol. The device also features an alarm function for the three parameters as well as for the battery status that signals, independent of the preset transmission cycle, that a limit value has been reached.

As a compact wireless device, the model GD-20-W is particularly suitable for retrofitting existing installations operated with SF₆ gas or alternative insulating gases. The installation and maintenance effort is low. The battery life is over ten years, depending on the measuring and transmission rate.

The sensor calculates gas density from the pressure and temperature values. It measures the pressure at 20 °C with an accuracy of ± 0.2 percent. The device monitors gas density continuously and thus allows demand-driven asset maintenance.

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