GRIDSCAN® AO-2

CONTROL HUB AND DISPLAY UNIT

H2scan®
Advanced Hydrogen Sensing

Comprehensive Transformer Monitoring

Imagine a world where transformer monitoring is effortless, reliable and delivers real value. No more frequent sensor replacements, tedious consumables or nagging uncertainty about your monitoring system reliability. *With H2scan, that world is now a reality.*

Robust GSAO-2 Control Hub Enhances H2scan's Patented Hydrogen Sensor Offerings

Maximize local and remote transformer asset condition visibility with the GSAO-2 Control Hub from H2scan. Designed to pair seamlessly with H2scan's GRIDSCAN® 5000 or GRIDSCAN 6000 transformer gas sensors, the GSAO-2 Control Hub adds to an already complete transformer monitoring system.

The GSAO-2 provides local display functionality, supports external sensors such as load current and top oil temperature and also adds local alarming relay contacts. This helps operators correlate gassing with measurements that include load and transformer temperature.

The GSAO-2 Control Hub delivers unparalleled ease of use and reliability, without the need to connect a computer for configuration.

Pair the GSAO-2 Control Hub with any H2scan GRIDSCAN monitor to combine operating parameters with the transformer's gassing state, enhancing your actionable insight without increasing O&M or complexity.

- Combines display, communications, alarming and analog I/O for the widest range of applications
- Out-of-the-box solution auto-detects H2scan GRIDSCAN 5000 or GRIDSCAN 6000 sensors immediately with no configuration required
- Low cost of ownership supports fleet-wide coverage for transmission and distribution grids, increasing safety, smarter deployment of capital, reduction in SAIDI and all the consequences associated with equipment failure
- Displays hydrogen gassing trends
- Magnet mount for rapid and secure installation which eliminates the need for framing construction

Transform Your Monitoring Program with a Complete Solution

Fast Time to Value: Hours, not weeks or months

All-in-One Integration: Shows alarms, transformer measurements and data trends on local display

Broad Connectivity: IoT/SCADA ready with Modbus or DNP3. Analog (4-20 mA) optional

Cost-Effective: Enables complete coverage to protect your transformer

Rugged and Reliable: Weatherproof, rugged enclosure and robust design for harsh substation environments

Easy Installation: "Plug-and-play" connectivity with H2scan sensors. Configures without a computer for immediate operation and flexible deployment

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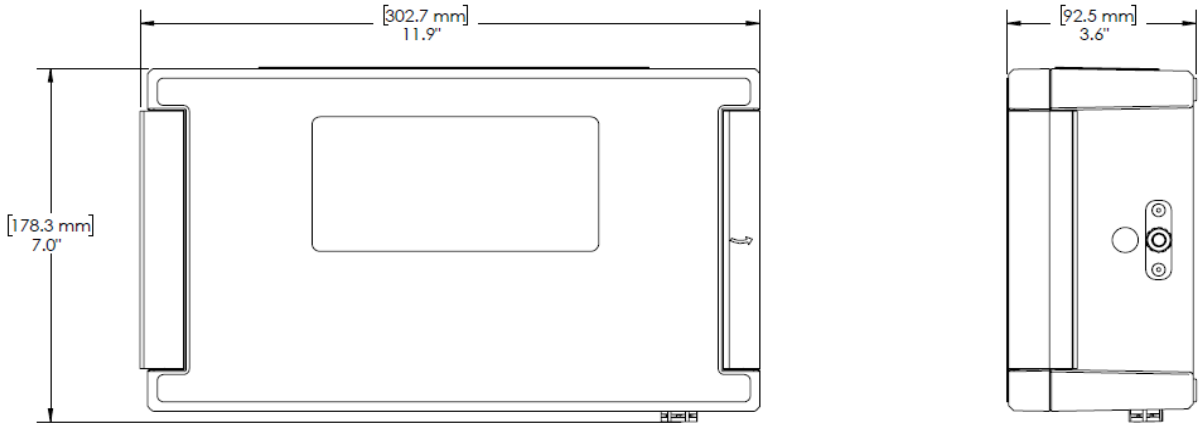
Operating Conditions

Environmental	
Ingress Protection	IP66 (IEC 60529) with provided cable gland fittings and plugs
Operating Temperature (Ambient)	-40°C to 70°C (-40°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	0 to 100% RH, condensing
Mechanical	
Dimensions H x W x D	178.3 x 302.7 x 92.5 mm (7.0 x 11.9 x 3.6 in)
Weight	3.4 kg (7.5 lbs)
Electrical	
Power Input	110 - 130 VAC
Auxiliary Power Output	22-26 VAC
Power Consumption	5 W (no external connection), up to 15 W (with 2 sensors connected)
Communication	
Protocols (RS-485)	Modbus (DNP3 coming soon)
Relay Outputs (4 ea.)	Form C, 3 A at 120 VAC, 3 A at 28 VDC
Analog Inputs (2 ea.)	4 - 20 mA, 0.1 - 5 VDC
Analog Outputs (4 ea.)	4 - 20 mA, 0.1 - 5 VDC
Other	
Standard Warranty	3 years
Certifications	Conducted & Radiated Emissions FCC CFR Title 47, Part 15 Subpart B and ANSI C63.4:2014; Class A Radiated Emissions. Electrical Safety UL/CSA C22 No./ ANSI/ISA-61010 Ed. 3-2012

GSAO-2 Dimensions



Specifications subject to change without notice