

GRIDSCAN[®] AO-1

Analog integration that turns hydrogen data into actionable control signals



GRIDSCAN AO-1 converts the GRIDSCAN's hydrogen measurements into an industry-standard 4-20 mA analog output, allowing rapid integrations with SCADA, PLCs, and legacy transformer monitoring systems. Installation takes a few hours in order to showcase hydrogen accuracy.

FAST DEPLOYMENT



HOURS, NOT WEEKS

Deploys quickly using existing wiring and infrastructure.

NO MEASUREMENT LOSS



PRESERVE HYDROGEN ACCURACY

Maintains the full accuracy of the GRIDSCAN hydrogen measurement.

LEGACY SYSTEM READY



4-20 mA OUTPUT

Connects directly to SCADA, PLCs and existing control systems.

WORKS WITH YOUR SETUP



PLUG AND PLAY SETUP

Automatically configures compatible GRIDSCAN sensors with no computer required.

BUILT FOR THE FIELD



RUGGED AND RELIABLE

Designed for harsh utility environments and outdoor installations.

CYBERSECURE DATA PATH



AIR-GAPPED ANALOG OUTPUT

Provides continuous analog monitoring without network connectivity.



POWER & COMMUNICATION

- 9-48 VDC power input
- 4-20 mA analog output
- Configurable hydrogen ranges

RATED FOR HARSH ENVIRONMENTS

- IP68 enclosure
- Rated for hot, cold, salt water and submersible conditions
- Rugged die-cast aluminum housing

H2scan brings situational intelligence to hydrogen-critical environments. Continuous monitoring, self-calibration and zero false alarms turn hydrogen data into operational confidence with fewer interruptions, less downtime, and more momentum.

GRIDSCAN® AO-1

H2scan brings situational intelligence to hydrogen-critical environments, GRIDSCAN AO-1 extends hydrogen monitoring into existing analog control systems, helping utilities modernize monitoring without replacing proven infrastructure.

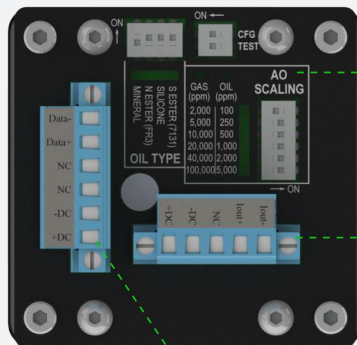
ENVIRONMENTAL

Ingress Protection	IP68
Operating Temperature (Ambient)	-40°C to 70°C (-40°F to 158°F)
Shock	30g, shock duration, 18 ms (IEC 60068-2-27)
Vibration	3-axis sinusoidal, wide-band and random [simulated long-life] (IEC 60068-2-6 table C.2, IEC 60068-2-64 paragraph A.2, category no.2, IEC 61373:2010 Cat 1B section9)

MECHANICAL

Dimensions (H x W x D)	120 x 125 x 62 mm (4.72 x 4.92 x 2.44 in)
Weight	387 g (0.85 lbs)

INTERNAL WIRING/SETTINGS



OIL TYPE/
HYDROGEN
SCALING

POWER/ANALOG
OUTPUT
CONNECTION

CONNECTION
TO GRIDSCAN
SENSOR

ELECTRICAL

External Power Supply Required	9, 12, 15, 24, 30, 36 or 48 VDC nominal (8.55 to 50.4 VDC)
Analog Output Range	Nominal 4-20 mA with over-range capability up to 24 mA
Power Consumption	13 W minimum (includes power for GRIDSCAN)
Analog Output Scaling (ppm)	0-100, 0-250, 0-500, 0-1000, 0-2000, 0-5000
Select Oil Types	Mineral oil, Natural ester oil (FR3), Silicone oil, Synthetic ester oil (7131)

PHYSICAL

Housing	Die Cast Aluminum
Sealing	Housing: Gasket sealed precision die-cast housing with adhesive sealed chemically strengthened glass. Cable Glands: IP68 sized for 5-12mm (0.20-0.47 in) wire diameter.

GRIDSCAN AO-1 DIMENSIONS

