

Model BRD-01

ALL-IN-ONE HYDROGEN
MONITORING SOLUTION
FOR STATIONARY
BATTERY APPLICATIONS



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Imagine...a world where battery room hydrogen monitoring is effortless, reliable, and worry-free. No more frequent sensor replacements, tedious calibrations, or nagging uncertainty about your safety systems.

With H2scan, that world is now a reality.

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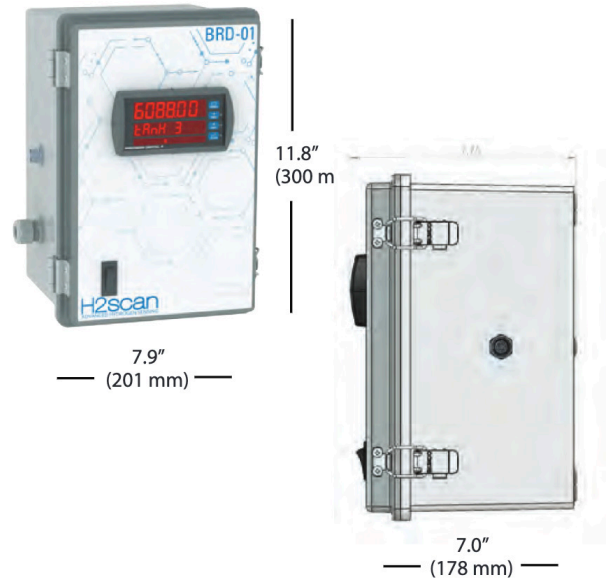
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Specifications

General	
Dimensions	11.8" x 7.9" x 7.0" (300 mm x 201 mm x 178 mm)
Input/Output	Modbus RTU over RS-485
Display	Line 1: 0.60" (15mm) high, red LEDs Line 2: 0.46" (12mm) high, red LEDs Eight selectable intensity settings
Overrange Underrange	Display Flashes 999999 Display Flashes -999999
Programming	Four front panel buttons, digital inputs, PC & Software, Modbus registers. Password protection
Non-Volatile Memory	All programmed settings are stored in non-volatile memory for a minimum of ten years, with or without power
Power Options	85-265 VAC 50/60 Hz; 90-265 VDC, 20 W max; 12-24 VDC, 12-24 VAC, 15 W max. Powered over USB for configuration only

Relays	
Relays	2 or 4 SPDT (Form C) internal and/or 4 SPST (Form A) external; rated 3 A @ 30 VDC and 125/250 VAC resistive load; 1/14 HP (\approx 50 W) @ 125/250 VAC for inductive loads
Noise Suppression	Noise suppression is recommended for each relay contact switching inductive loads to prevent disruption to the microprocessor's operation. Recommended suppressor value: 0.01 μ F/470 W, 250 VAC
High or Low Alarm	User may program any alarm for high or lowtrip point. Unused alarm LEDs and relays maybe disabled (turn off)
Relay Reset (Acknowledge)	User selectable via front panel button, F4 terminal at back of scanner, external contact closure on digital inputs, or through serial communications
Time Delay	Four front panel buttons, digital inputs, PC & Software, Modbus registers. Password protection
Fail Safe Option	All programmed settings are stored in non-volatile memory for a minimum of ten years, with or without power
Auto Initialization	85-265 VAC 50/60 Hz; 90-265 VDC, 20 W max; 12-24 VDC, 12-24 VAC, 15 W max. Powered over USB for configuration only
Additional Relays	An external module, model PDA1004, is available to add 4 SPST 3 A relays to the scanner



Power Supply	
DIN Rail Power Supply	Din Rail Power Supply 120W 24V 5A 20' A/C Power Cord 16 AWG with Plug

Isolated 4-20 mA Transmitter Output	
Output Source	PV1-16, math channels C1-4, set points 1-8, or manual control mode
Scaling Range	1.000 to 23.000 mA for any display range
Calibration	Factory calibrated: 4.000 to 20.000 = 4-20 mA output
Analog Output Programming	23.000 mA maximum for all parameters: Overrange, underrange, max, min, and break
Communications Break	Programmable mA output when a slave device does not reply within the response timeout
Accuracy	\pm 0.1% of span \pm 0.004 mA

On-Board Digital Input	
Function	Remote operation of front-panel buttons, acknowledge/reset relays, reset max/min values
Contacts	3.3 VDC on contact. Connect normally open contacts across F4 to COM
Logic Levels	Logic High: 3 to 5 VDC Logic Low: 0 to 1.25 VDC
Additional I/O	Up to 2 external modules, model PDA1044 with 4 digital inputs and 4 digital outputs each can be added

BRD-01 is a registered trademark of H2scan
Specifications subject to change without notice
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