

Hydrogen Nitriding Analyzer



PN: 13537 800 X 480 Color Touch Screen

- Easy to operate
- Easy to use onboard calibration
- Software utilities for printing charts

Included Software for Data Management

- Data manager for downloading
- Print charts and tabular data
- Add notes when capturing data
- Graphical display on PC
- Export utilities



Hydrogen Analyzer used for nitriding and other process gas applications

Nitriding Potential (K_N)

Displays 0 - 100% H₂

Calculates and Displays %DA and K_N

Capable of %DA and K_N with manual input of N_2 and NH_3 flows

General Specifications

- Input Voltage: 100 240 VAC
- Maximum Current Draw: 0.2A @ 120 VAC
- Enclosure Weight: 22.5 lbs / 10.2 kg
- Analog Outputs: Two 4-20mA outputs common supply and isolated from other electronics
- \bullet Output variables: $\% {\rm H_2}$, $\% {\rm NH_3}$, $\% {\rm DA}$ and ${\rm K_N}$ on either output
- Field calibration for zero and span
- Ethernet and USB communications

Hydrogen measurement:

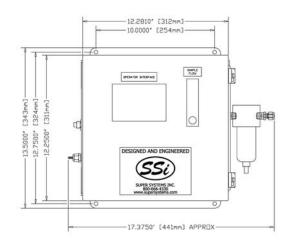
Sample flow rate:

1.5-2 cfh

Range: 0 to 100%

Accuracy: +/- 1% Repeatability: +/- 1%

Resolution: +/- 0.01%







INNOVATIVE SOLUTIONS WORLDWIDE

OEM H₂ Sensor-



Features

- Measures H₂ from 0 to 100% with 0.01% resolution
- ullet Calculates NH_3 , DA, and K_N for nitrider applications
- Two isolated 4-20mA or 0-20mA (current) OR 0-10V, 2-10V, 1-5V, or 0-5V (voltage) analog outputs
- One RS-232 port with Modbus RTU or a simple ASCII protocol
- •One RS-485 port with Modbus RTU protocol
- Wide power supply input range (9-30 VDC)

Temperature and Humidity:

Electronics: 0 to 50°C, RH to 90% non-condensing

Sample Gas: 0 to 70°C, RH 0 to 90% non-

condensing

Storage: -20 to 70°C, RH 0 to 90% non-condensing

Hydrogen measurement:

Sample flow rate:

Range: 0 to 100%

1.5-2 cfh

Accuracy: +/- 1%

Power requirement:

Repeatability: +/- 1% Resolution: +/- 0.01%

9 to 30 volts DC @ 2 watts

Material:

Weight:

Stainless steel sensor housing

350q

Specifications

RS-232 Serial Communications:

Protocols: Modbus RTU or simple ASCII Baud Rates: 9600, 19200, or 38400

Format: 8 bits, no parity; 1 stop bit, no handshaking

Connection: DB-9F

RS-485 Serial Communications:

Protocol: Modbus RTU

Baud Rates: 9600, 19200, or 38400

Format: 8 bits, no parity; 1 stop bit, no handshaking

Connection: Screw Terminals

Analog Outputs:

Two 4-20mA or 0-20mA (current) OR 0-10V, 2-10V, 1-5V or 0-5V (voltage) outputs common supply and isolated

from other electronics

Output variables: $\%H_2$, $\%NH_3$, %DA, and K_N on either

output

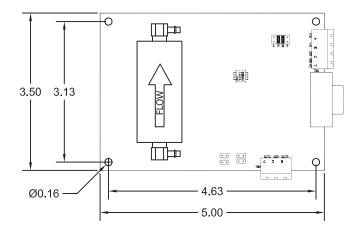
Adjustable range of PV: zero and span

Resolution: 0.005 mA

Accuracy: +/- 0.01% of range

Linearity: +/- 0.01%

Minimum load resistance: 0Ω Maximum load resistance: 500Ω



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