

HYDROGEN SENSOR/TRANSMITTER

H2-ST Series
September 2011

Features

- High-accuracy electrochemical cell sensor
- Two-wire, loop-powered 4-20mA analog output
- IP66 enclosure
- Micro-chip control

Applications

- Semiconductor
- Power Plants
- Fuel Cell Industry
- R & D applications
- Gas plants
- Battery charging (telecom backup, forklifts, golf carts, etc.)



The ACME **H2-ST series** Hydrogen sensor/transmitter uses a high performance catalytic bead sensor to accurately measure Hydrogen concentrations.

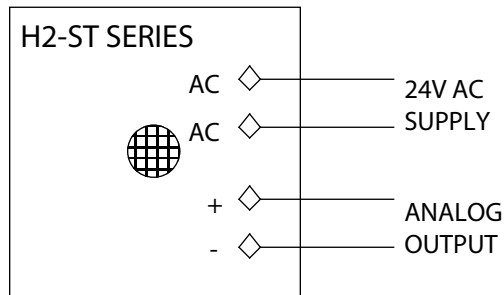
The transmitter is designed to output a 4-20mA or 0-5V analog signal that spans over a Hydrogen detection range of 0-40% L.E.L. (other ranges also available).

A proprietary design algorithm makes the sensor circuitry immune to local RF interference.

Standard unit specifications

SENSOR TECHNOLOGY:	Catalytic Bead
SENSING METHOD:	Diffusion
POWER SUPPLY:	18-24 VDC
OUTPUT:	4-20mA or 0-5 V
DETECTION RANGES:	0-40% L.E.L Standard (Other ranges are available)
OPERATING TEMP:	-20°C to +50°C
HUMIDITY RANGE:	15-90% RH
REPEATABILITY:	±2% of signal
RESPONSE TIME (T90%):	< 40 seconds
EXPECTED LIFETIME:	3 years
ENCLOSURE:	NEMA 3 Cast Aluminum Surface mounting
DIMENSIONS:	175mm x 131mm x 56mm

Typical Wiring Diagram for 4-wire



4 WIRE SYSTEM

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