4NH3-100 Electrochemical NH3 Sensor



Key Features & Benefits

- *Low Power Consumption
- *High Precision
- * High sensitivity
- *Wide Linear Range
- *Excellent Repeatability and Stability

Applications

Energy, Electric Power, Petrochemical, Environmental Protection, Mining, Agriculture, Smart Home, etc.

Technical Specification

MEASUREMENT

Principle 3-electrodes electrochemical

Range 0-100ppm Maximum Overload 200ppm

Sensitivity 0.1 ±0.03 (uA/ppm)

Response Time (T90) <40 seconds

Baseline Offset (20°C) -2∼5ppm

Zero Drift (-20°C-40°C) <12ppm

Repeatability 3% of signal

Output Signal Linear

Long Term Output Drift <1% signal/month

ELECTRICAL

RecommendedLoadResistor 10Ω

Bias Potential not required

ENVIRONMENTAL

Working Temperature Range $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$ Working Pressure Range $90 \sim 110 \text{ kPa}$

Working Humidity Range 10% – 90% (not condensing)

Storage Temperature Range $0\sim20^{\circ}\text{C}$

LIFETIME

Storage Life 6months

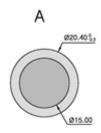
Expected Operating Life 2 years in air

Warranty 12months

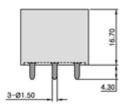
PHYSICAL CHARACTERISTICS

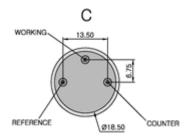
Weight 11g
Orientation Sensitivity None

Product Dimension



В





Notes: 1 All dimensions in mm

2 All tolerances ±0.15mm
unless otherwise stated.

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Cross-Sensitivity Data

Notes: 1. All performance data is based on condition at 20°C, 50%RH & 1013mbar.For sensor performance data under other conditions, please contact us.

2. Connection should be made via PCB sockets only. Soldering to the pins will seriously damage the sensor

Gas	Concentration Used (ppm)	4NH3-100 (ppm NH3)
СО	500	0
H2	100	0
SO2	20	-6
NO	50	0
H2S	25	30
NO2	5	-7.5

Precautions:

- 1 .The sensor should be prevented from organic solvents or corrosive gases
- 2 .The sensor should not be stored in dusty, dirty areas and anaerobic environment
- 3. The sensor must not be exposed to very high concentration of the analyte permanantly
- 4 .Excessive shock or vibration should be prevented to avoid internal damage
- 5. The pins should not be broken or bent
- 6. The working and reference electrodes should be in short-circuit condition in storage



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