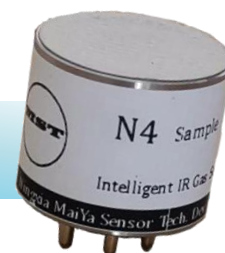


CO2 Carbon dioxide Sensor

MST-N4 CO₂ Datasheet



Application

- ◆ Environmental detection
- ◆ Gas leakage detection
- ◆ On-line monitoring

Advantages& characteristics

- ◆ Quick response and accurate measurement
- ◆ Will not get poisoned
- ◆ Working with no oxygen required
- ◆ More than 5 years lifespan
- ◆ Small size structure

Base Specification

- ◆ Detection gas CO₂
- ◆ Working principle Non-distributed infrared (NDIR)
- ◆ Measuring range 0-5000/50000ppm, 0-1/2/5/10/20/100%vol
- ◆ Accuracy Range 5000-50000ppm: $\pm(50+5\%$ of true value) ppm
Range $\geq 1\%$ vol: $\pm(6\%$ of truth value) vol
- ◆ Resolution 1ppm / 0.01vol($\leq 10\%$ vol) / 0.1%vol($>10\%$ vol)
- ◆ Response time (T90) <20s (Free diffusion)
- ◆ Working temperature $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- ◆ Storage temperature $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- ◆ Working humidity 0 ~ 98%RH, non-condensing
- ◆ Preheating time 1min
- ◆ Digital output TTL level
- ◆ Analog output 0.4 ~ 2 VDC
- ◆ Supply voltage 3.0 ~ 5.5 VDC
- ◆ Working current Average < 70 mA @ 3 VDC
Peak value < 140 mA @ 3 VDC
- ◆ Lifespan >5 years
- ◆ Warranty 1 year
- ◆ Weight 21g

Pin specification

Pin mark	Function	Description
V	Positive electrode of power supply	3.0 - 5.5 VDC
G	Negative terminal of power supply	GND
T	Serial port transmitter	TTL TXD
R	Serial port receiver	TTL RXD
D	Analog output	0 - 0.24V means sensor failure 0.24 - 0.4V means negative drift 0.4-2V corresponds to 0-100% F.S. > 2.0V indicates overrange

Size drawing (unit: mm)

