麦芽传感 MaiYaSensorTech

Nondispersive infrared(NDIR) Gas sensor

CHF3 (trifluoromethane, R-23) gas Sensor



MST-N7M CHF3 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

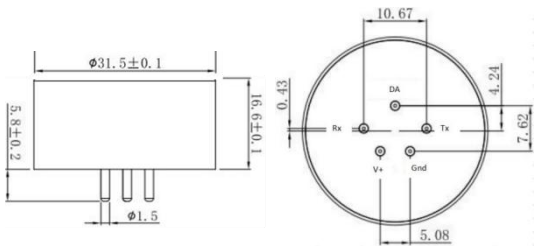
Base Specification

Detection gas	CHF3 (R-23)
Working principle	Non-distributed infrared (NDIR)
Measuring range	0-2000ppm
Accuracy	±3%FS
Resolution	1ppm
Response time (T90)	<30s (Free diffusion)
Working temperature	-40℃ ~ 70℃
Storage temperature	-40℃ ~ 85℃
Working humidity	0 ~ 95%RH, non-condensing
Preheating time	1min
Digital output	TTL level
Analog output	0.4 ~ 2V
Supply voltage	3.0 ~ 5.5 VDC
Working current	Average <75mA @ 5VDC
Power consumption	0.38W (Average value)
Lifespan	>5 years
Warranty	1 year
Weight	63g

Pin specification

Pin mark	Function	Description
V+	Positive electrode of power supply	3.0 - 5.5 VDC
Gnd	Negative terminal of power supply	GND
Tx	Serial port transmitter	TTL TXD
Rx	Serial port receiver	TTL RXD
DA	Analog output	0V means sensor failure 0.2V means sensor in preheating 0.4-2V corresponds to 0-100% F.S. 2-2.2V means overrange

Size drawing (unit: mm)



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