



Product Data Sheet

NDIR CO2 SENSOR MODEL EOC-GDM-CO2-PCL0A

• Description

PCLOA is a general infrared CO2 sensor module formed using the NDIR infrared absorption detection principle.

• Performance Characteristics

Output Mode:	UART,PWM
No. of Channel:	Single
Dimension:	33 mm X 12 mm X 10 mm
Application:	HVAC, Air Quality

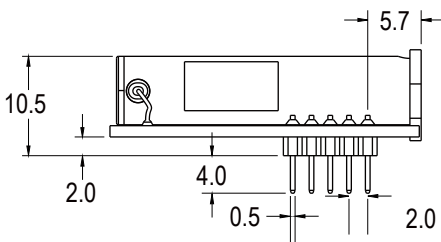
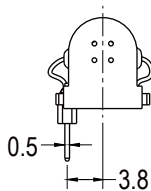
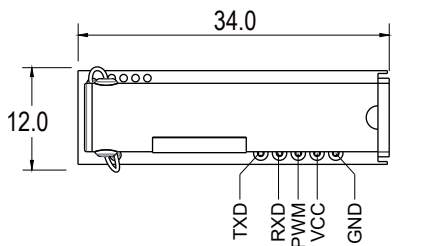
• Environmental

Storage Temperature:	-40°C ~ 70°C
Working Temperature:	-10°C ~ 60°C
Working Humidity:	0% ~ 95%RH non-condensing

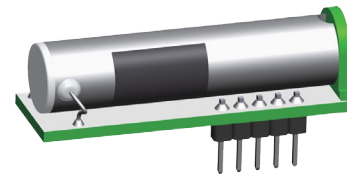
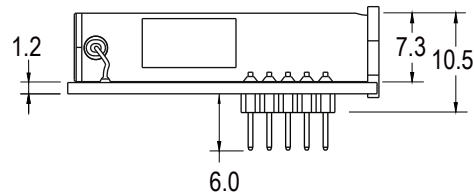
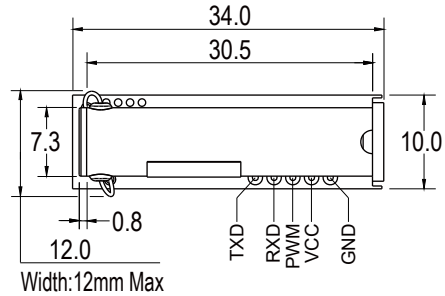
• Pinout

Pin 1 - TTL TXD	Pin 4 - +5 VCC
Pin 2 - TTL RXD	Pin 5 - GND
Pin 3 - PWM Output	

• Installation Instructions



• Product Dimensions



All dimensions in mm

All tolerances ± 0.20 mm unless otherwise stated

• Note

All the above performance parameters are measured in a standard test environment. Please contact us if you need more details.

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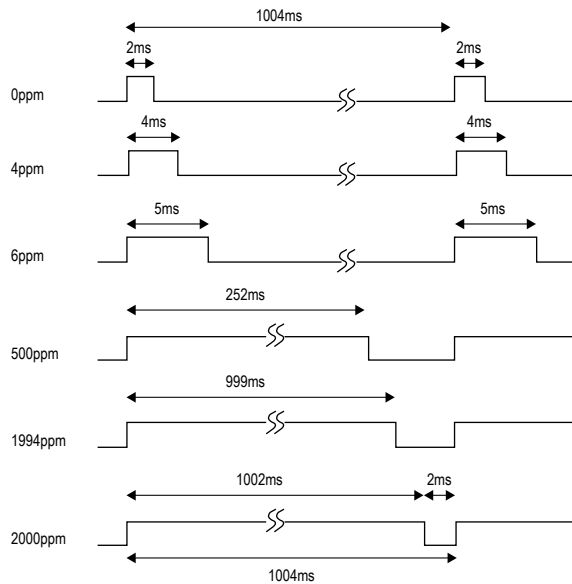
• Technical Data

Description	Parameter	Unit
Detection Range	0 ~ 2000 (Max: 5000)	ppm
Detection Accuracy	± 70ppm ± 5% reading	/
Response Time	< 3	minutes
Warm-Up Time	Start to Work < 30	seconds
	Precision Reached < 5	minutes
Working Voltage	5 ± 0.5	V
Working Current	Iavg: 75	mA
	Ipeak: 140	mA

• PWM Output

Output Cycle: 1004 ms ± 5%

The positive pulse width =(PPM concentration / 2) + 2ms



• UART Protocol

Baud Rate: 19200 bps, 8 data bits, 1 stop bit, no check bit. The concentration readout and return data are in hexadecimal.

Concentration uploaded automatically in ASCII with the format:

32	32	x	x	x	x	x	32	p	p	m	\r	\n
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For example: output of 12345 ppm:

		1	2	3	4	5		p	p	m	\r	\n
0x20,	0x20,	0x31,	0x32,	0x33,	0x34,	0x35,	0x20,	0x70,	0x70,	0x6d,	0x0d,	0x0a,