

C0 Current Type Transmitter

SC02-4 Datasheets



SINTEK

1、Product Overview

SCO2-4 wall mounted current output CO transmitter adopts high-quality and high-precision digital sensors, which have excellent long-term stability, low hysteresis, strong resistance to chemical pollution, and excellent repeatability. We have adopted a professional testing CO sensor and used electrochemical principles to detect CO in the air, which has good selectivity and stability. Built in temperature sensor for temperature compensation; With digital output mode, easy to use; It has the characteristics of wide measurement range, high accuracy, good linearity, good universality, convenient use, and easy installation.



Size (Unit: mm)

2、Product Features

- ④ Beautiful appearance, digital calibration, and good long-term stability
- ④ Standard industrial signal output
- ④ Accurate measurement based on the principle of non dispersed infrared absorption
- ④ Sensor built-in temperature compensation algorithm

3、 Main Parameters

Parameters	Value	Unit
Rang	0~2000	ppm
Resolution	1	ppm
Response time T90	<5	Seconds(s)
Data update time	<3 (standard 1s)	Seconds(s)
Warm-up time	<30s	Seconds(s)
Dc supply voltage	Typ:24V Min:15V Max: 30	Volts (V)
Data interface	4 core aviation head	
Operating temperature range	-20~+50	(°C)
Operating humidity range	15~90% no condensation	
Storage temperature range	-10~+50	(°C)

4、 Electrical connection

1、 The external communication port wiring diagram is shown in Figure;

Table 1: Description of wiring interface

		Wire Color	Illustrate
1	V+	Red	Power supply positive input
2	Gnd	Black	Power negative input end
3	OUT	Yellow	Current output

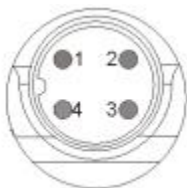


Figure 1 :Interface diagram

2、 The external connection diagram is shown in Figure 2

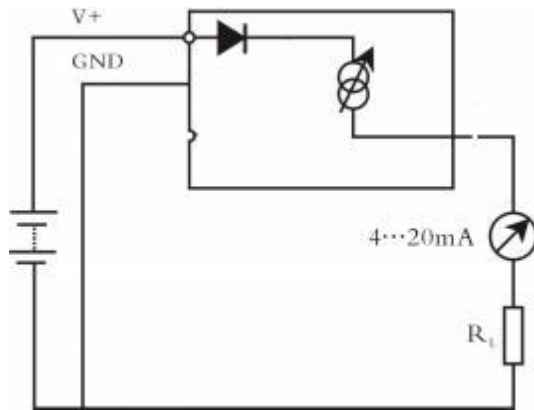


Figure 2 Output diagram

The load resistance in the figure is usually valued in the following table (for reference only) :

Supply voltage	Sampling resistance RL resistance range
DC: 15-20V	$50 \Omega < R_L < 200 \Omega$
DC: 20-30V	$50 \Omega < R_L < 400 \Omega$

3、 Output current formula: (Range 0-2000ppm)

$$COO = (\text{Output current} - 4\text{mA}) / 0.008$$

Example : Output current 12mA

$$CO = (12 - 4) / 0.008 = 1000 \text{ ppm}$$

4、 Note:

Power supply V+ can not short-circuit the current output cable, otherwise it will damage the product, please disconnect the power cable.