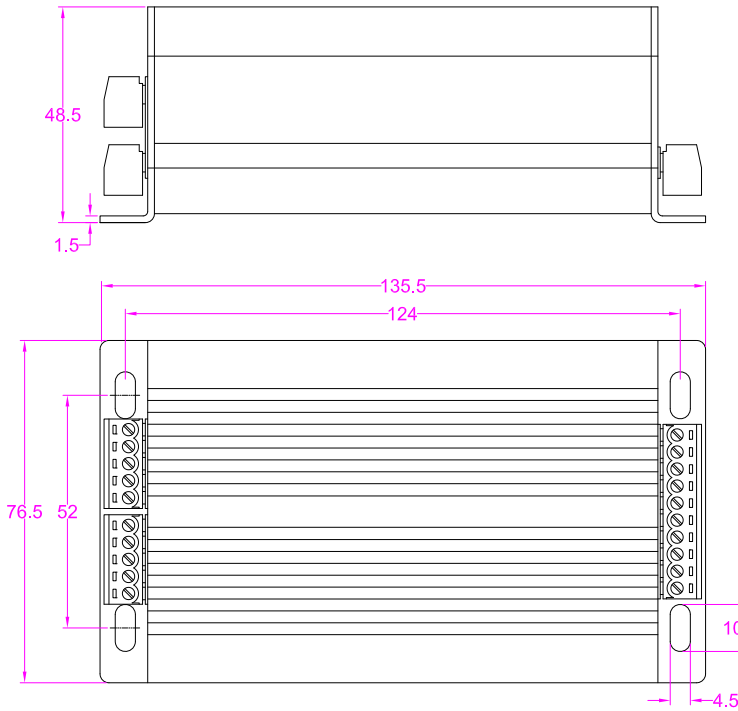


# 4-Channel load cell amplifier (4 inputs and 4 outputs)



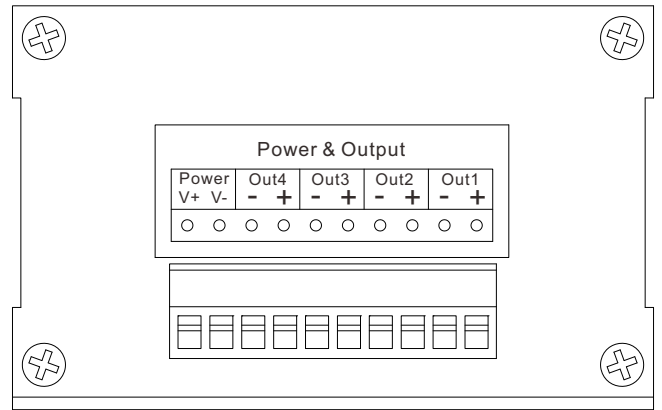
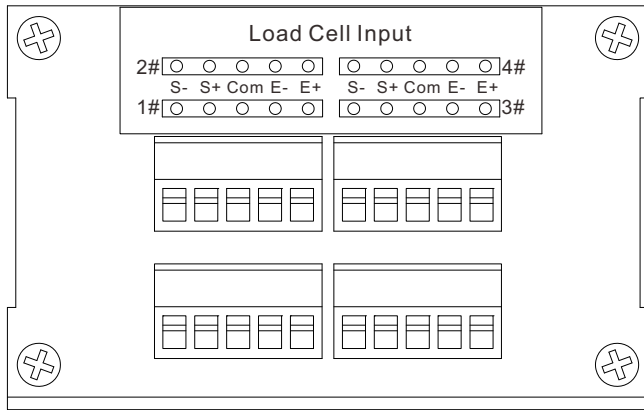
Ordering Code			
For compression only (Or tension only)		For tension and compression (Or clockwise and CCW)	
24V Power supply	12V Power supply	24V Power supply	12V Power supply
LC4A(0-3.3V)-24V	LC4A(0-3.3V)-12V	LC4A(0-1.5-3V)-24V	LC4A(0-1.5-3V)-12V
LC4A(0-5V)-24V	LC4A(0-5V)-12V	LC4A(0-2.5-5V)-24V	LC4A(0-2.5-5V)-12V
LC4A(0-10V)-24V	LC4A(0-10V)-12V	LC4A(0-5-10V)-24V	LC4A(0-5-10V)-12V
LC4A(0-20mA)-24V	LC4A(0-20mA)-12V	LC4A(-5-5V)-24V	LC4A(-5-5V)-12V
LC4A(4-20mA)-24V	LC4A(4-20mA)-12V	LC4A(-10-10V)-24V	LC4A(-10-10V)-12V
/	/	LC4A(4-12-20mA)-24V	LC4A(4-12-20mA)-12V
Consult us for other outputs			

--- Specifications / 规格参数 ---

Function/功能	Turn mV signal into V or mA signal 将mV信号放大成V或mA信号
Accuracy/精度	0.15%
Power supply/供电电压	24V DC or 12V DC
Excitation for load cell/传感器激励电压	5V DC
Input signal range/输入信号范围	0.6~3.0mV/V
Output signal/输出信号	Refer to ordering code
Working Temp./工作温度	-10...+60°C
Material of enclosure/外壳材料	Aluminum alloy/铝合金
Ingress protection/防护等级	IP40

• Subject to change without notice / 如有更改,不另行通知

# Wiring code of LC4A



1# terminal connects with 1# sensor			
2# terminal connects with 2# sensor			
3# terminal connects with 3# sensor			
4# terminal connects with 4# sensor			
E+	EXC+	E-	EXC-
S+	SIG+	S-	SIG-
Com		Shield	

Power			
V+	Power+	V-	Power-
Out1 @ Output of 1# sensor			
Out2 @ Output of 2# sensor			
Out3 @ Output of 3# sensor			
Out4 @ Output of 4# sensor			
+	Output+	-	Output-

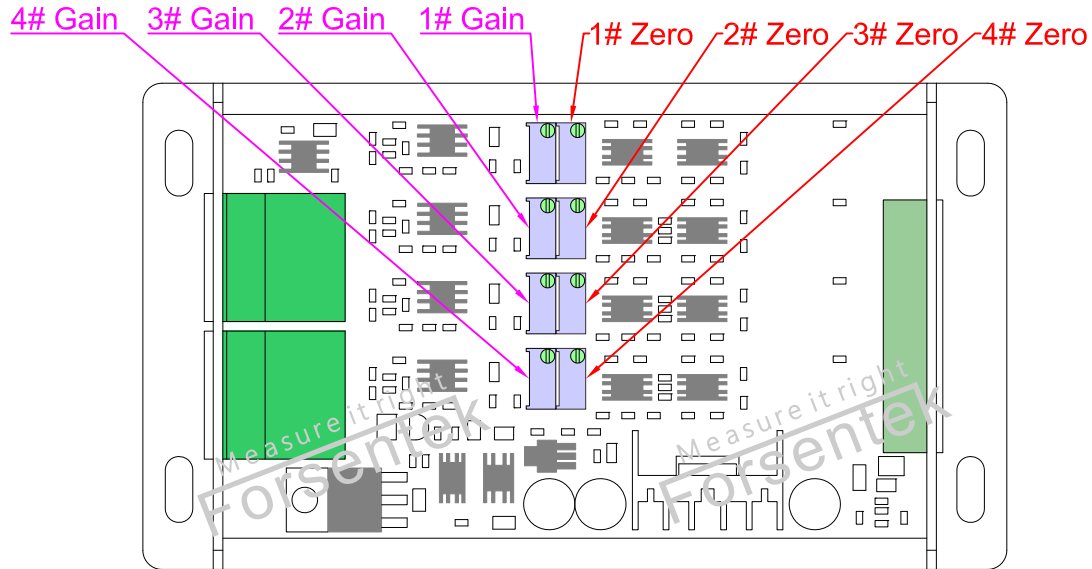
# Calibration instructions of LC4A

Before operation, clients need to prepare:

- 1-Power supply for LC4A
- 2-5 x 2-core cables for power input and signal output
- 3-Multimeter to measure the output signal from LC4A
- 4-Reference load and necessary tools for calibration
- 5-Screw drivers to open the cover plate of LC4A and adjust the potentiometers during calibration

## 1-Wiring(Refer to P-2/3)

2-Open the top cover plate of LC4A,you'll see below view:



## 3-Calibration of 1# sensor

- 3.1-Measuring the output signal from Out1 of LC4A using a multimeter.
- 3.2-Applying 0 load to 1# sensor,adjust potentiometer "1# Zero" to get desired output.
- 3.3-Applying reference load to 1# sensor,adjust potentiometer "1# Gain" to get desired output.
- 3.4-Repeat step 3.2 and 3.3 for 2-3 times to get better result.

## 4-Calibration of 2# sensor

- 4.1-Measuring the output signal from Out2 of LC4A using a multimeter.
- 4.2-Applying 0 load to 2# sensor,adjust potentiometer "2# Zero" to get desired output.
- 4.3-Applying reference load to 2# sensor,adjust potentiometer "2# Gain" to get desired output.
- 4.4-Repeat step 4.2 and 4.3 for 2-3 times to get better result.

## 5-Calibration of 3# sensor

- 5.1-Measuring the output signal from Out3 of LC4A using a multimeter.
- 5.2-Applying 0 load to 3# sensor,adjust potentiometer "3# Zero" to get desired output.
- 5.3-Applying reference load to 3# sensor,adjust potentiometer "3# Gain" to get desired output.
- 5.4-Repeat step 5.2 and 5.3 for 2-3 times to get better result.

## 6-Calibration of 4# sensor

- 6.1-Measuring the output signal from Out4 of LC4A using a multimeter.
- 6.2-Applying 0 load to 4# sensor,adjust potentiometer "4# Zero" to get desired output.
- 6.3-Applying reference load to 4# sensor,adjust potentiometer "4# Gain" to get desired output.
- 6.4-Repeat step 6.2 and 6.3 for 2-3 times to get better result.

## 7-Install the top cover plate of LC4A