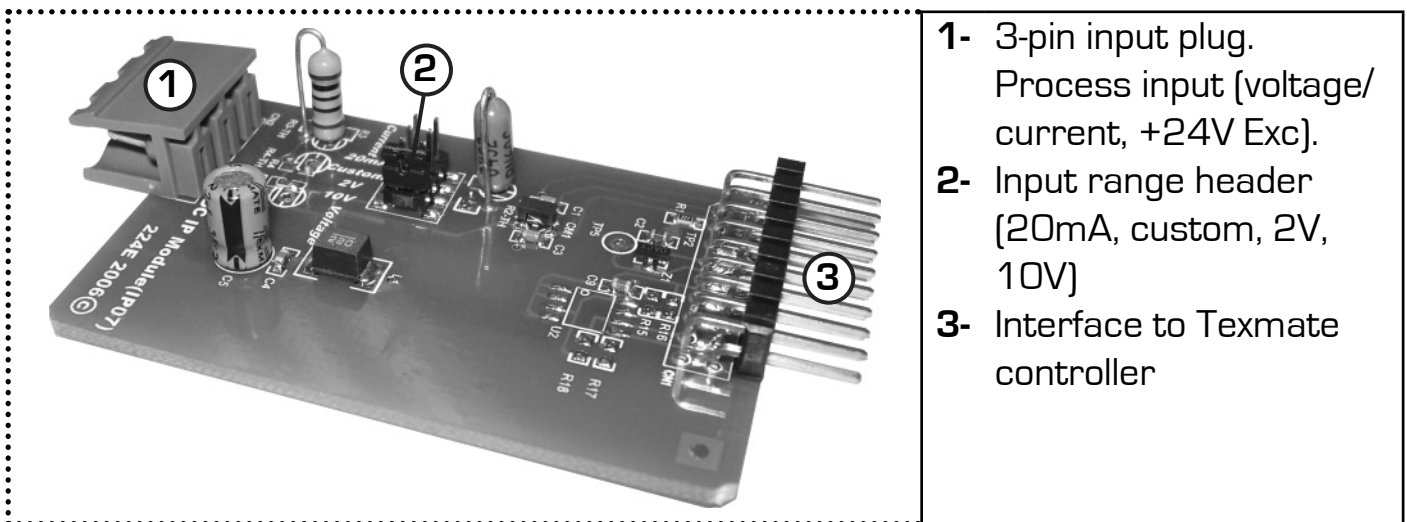




## IP07

Universal Process Input  
4-20mA/0-10V

The IP07 is a versatile input module which acts as a general purpose interface to a wide range of DC voltage or milliamp signal inputs. With an external excitation voltage available to power transducers and on-board selectable headers for interface options, IP07 is the ideal choice for universal process input.



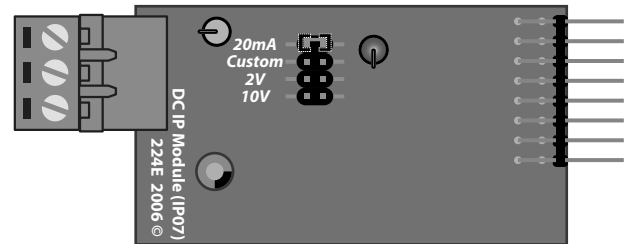
- 1- 3-pin input plug.  
Process input (voltage/  
current, +24V Exc).
- 2- Input range header  
(20mA, custom, 2V,  
10V)
- 3- Interface to Texmate  
controller

### IP07 Specifications

<i>Signal type</i>	Choice of DC volts or DC current (header selectable)
<i>Voltage ranges</i>	2/ 10V DC (header selectable) Input impedance approximately 1M $\Omega$
<i>Current ranges</i>	20mA or custom (header selectable) 200mV drop across shunt resistor
<i>External excitation</i>	+24V DC (150mA maximum)
<i>Accuracy</i>	0.05% of reading
<i>Temperature drift</i>	Typically 50ppm/ $^{\circ}$ C

## IPO7 Board Layout

Depending on your application, you may require a non-standard analog input. Your input module can be adjusted by changing the header position as shown below.



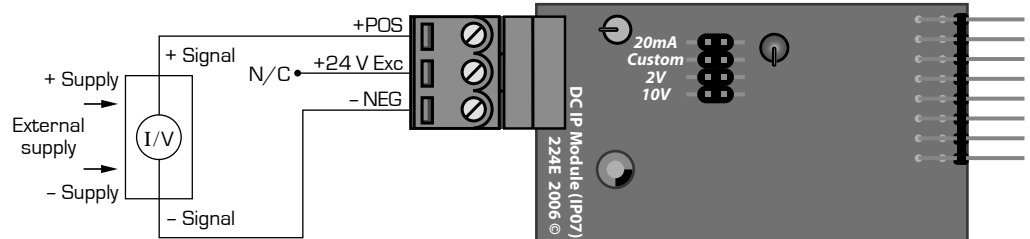
Headers	Analog input	Headers	Analog input
	Current input 0-20mA or 4-20mA		Voltage input 0-2V
	Custom input Contact Texmate		Voltage input 0-10V

## Wiring The Analog Input Signal

Use the diagrams below to wire your IPO7 for various input signals, including 3-wire process input, 2-wire process input and 2-wire loop powered sensor.

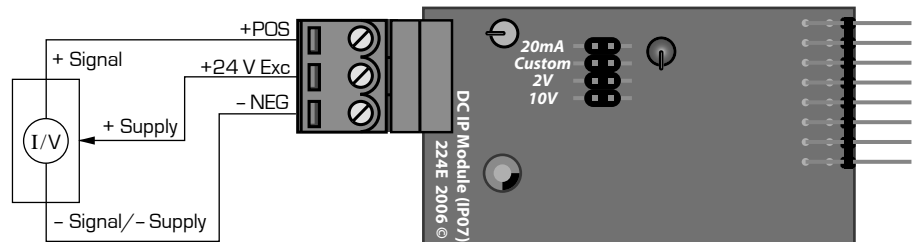
### 2-wire current or voltage input

*External excitation used*



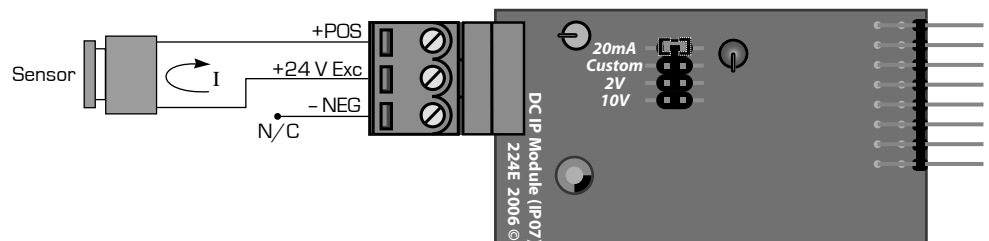
### 3-wire current or voltage input

*Controller supplied excitation*



### 2-wire loop powered sensor

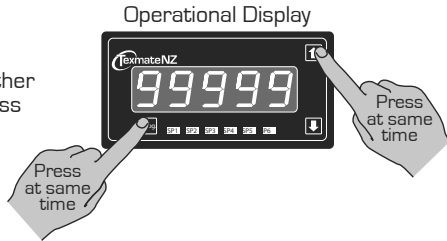
*Current input only*



## Two Point Calibration Mode Example

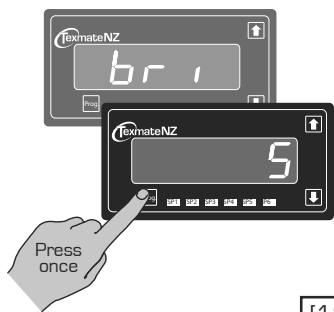
### Step 1

Press **P** and **▲** together to enter the brightness mode



### Step 2

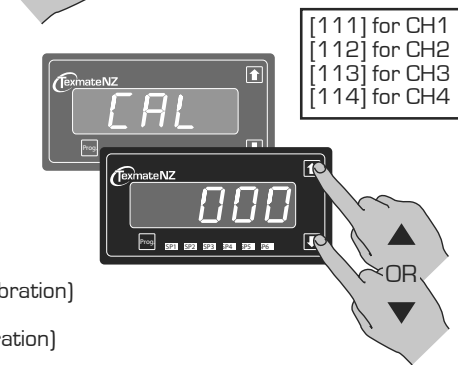
Press **P** to pass the brightness mode & enter the calibration mode



### Step 3

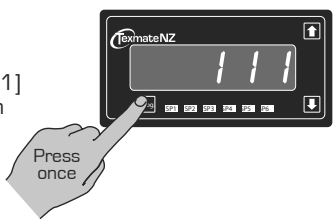
Use the **▲** and **▼** buttons to set the calibration mode to [111]:

- 1<sup>st</sup> Digit = 1 (Selects calibration procedures)
- 2<sup>nd</sup> Digit = 1 (Selects 2-point calibration)
- 3<sup>rd</sup> Digit = 1 (Sets CH1 for calibration)



### Step 4

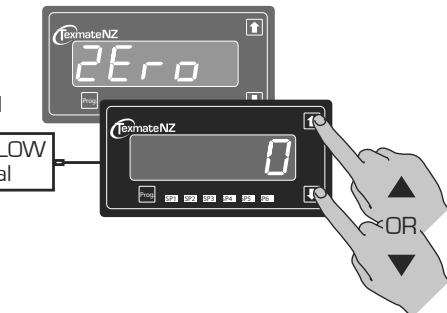
Press **P** to confirm calibration mode [111] for 2-point calibration of CH1



### Step 5

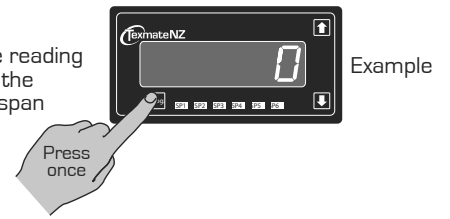
Use the **▲** and **▼** buttons to adjust the display to the desired reading for zero input

Apply the LOW input signal



### Step 6

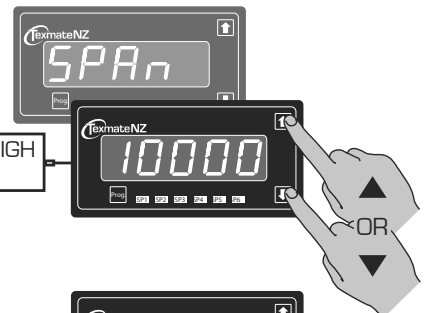
Press **P** to set the reading for zero load into the meter, and enter span mode



### Step 7

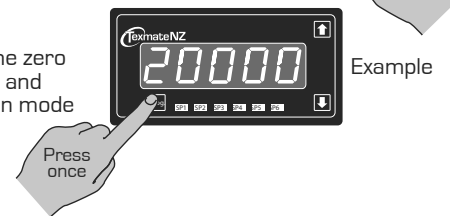
Use the **▲** and **▼** buttons to adjust the display to the desired reading for span input

Apply the HIGH input signal



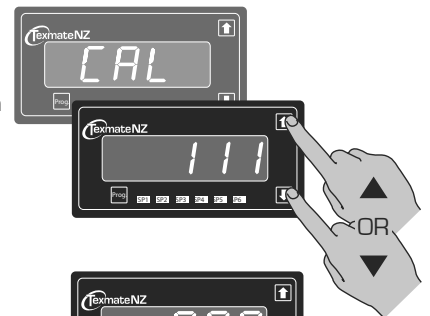
### Step 8

Press **P** to save the zero and span settings and re-enter calibration mode



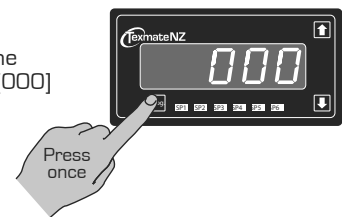
### Step 9

Use the **▲** and **▼** buttons to select the no-function calibration mode [000]



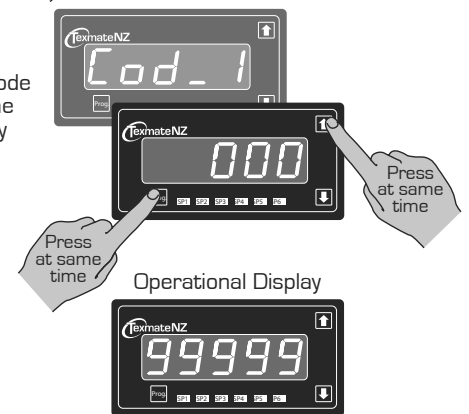
### Step 10

Press **P** to save the calibration mode [000] setting and enter Code 1.



### Step 11

Press **P** and **▲** together to exit Code 1 and return to the operational display



**Customer Notes**

Code 1:			
Code 2:			
Code 3:			
Code 4:			
Code 5:			

Code 6:			
Code 7:			
Code 8:			
Code 9:			

---



---



---



---



---



---



---



---



---



---



---



---



---



---



---



---



---



---



---



---



---



---

	10B Vega Place, Mairangi Bay, North Shore City 0632, New Zealand	<b>Distributor</b>
Ph: +64 (9) 835-1550    Email: <a href="mailto:info@texmate.co.nz">info@texmate.co.nz</a>	Fax: +64 (9) 835-1250    Web: <a href="http://www.texmate.co.nz">www.texmate.co.nz</a>	