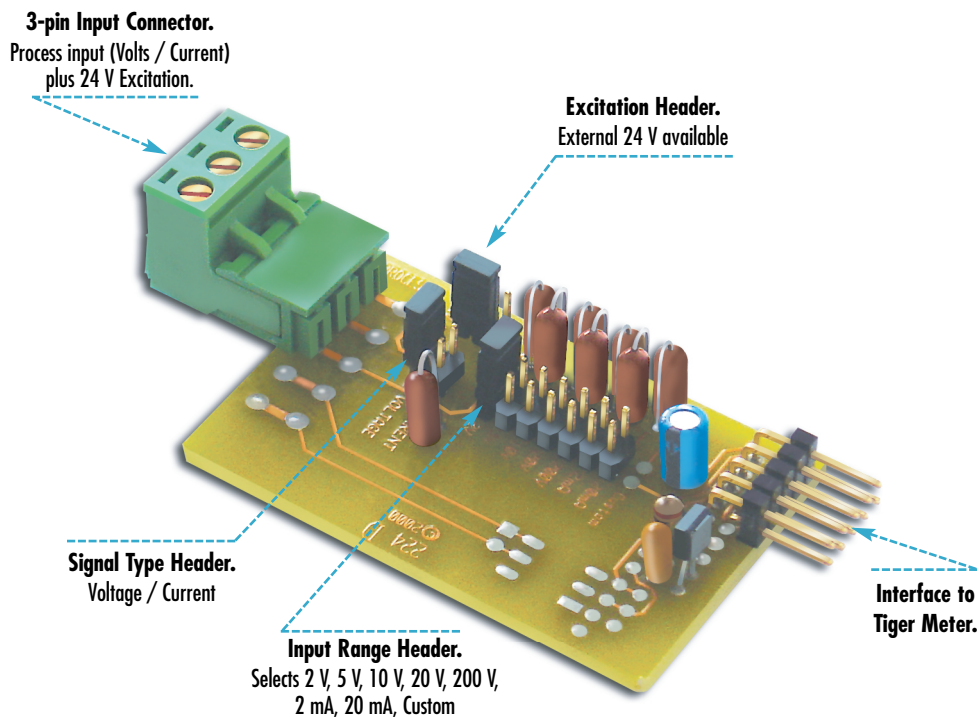


UNIVERSAL PROCESS INPUT



Introducing IP07 – The mainstay in process interfacing.

IP07 is a versatile input module presented 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 between the process inputs and your Texmate controller.

Input Module
Order Code Suffix

IP07

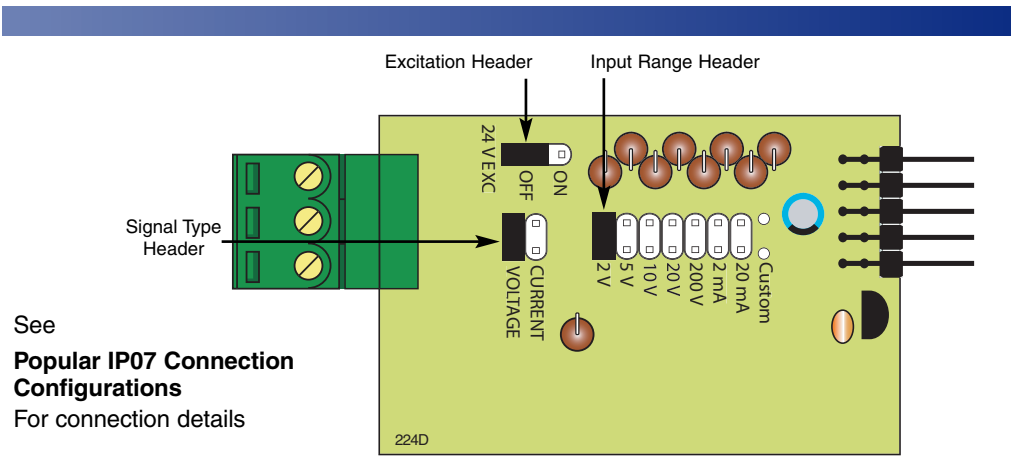
Hardware Module Specifications

[illegible]

***Fits Leopard
& Tiger 320 Series***

INPUTS

PROCESS
4 / 20 mA
2 / 5 / 10 / 20 / 200 V



See
**Popular IP07 Connection
Configurations**
For connection details

Figure 1 – IP07 Component Layout

Technical
Description

Figure 2 is an IP07 signal flow diagram showing the input signal flow through the signal type, voltage range, and current range headers to the Tiger or Leopard controller for further processing. The signal type header channels the input signal to either the voltage or current range header, which is set to suit the input voltage or current.

For Tiger or Leopard controller supplied +24 V DC excitation, set the excitation header to ON. If excitation is supplied externally (e.g. from the transducer) set the excitation header to OFF.

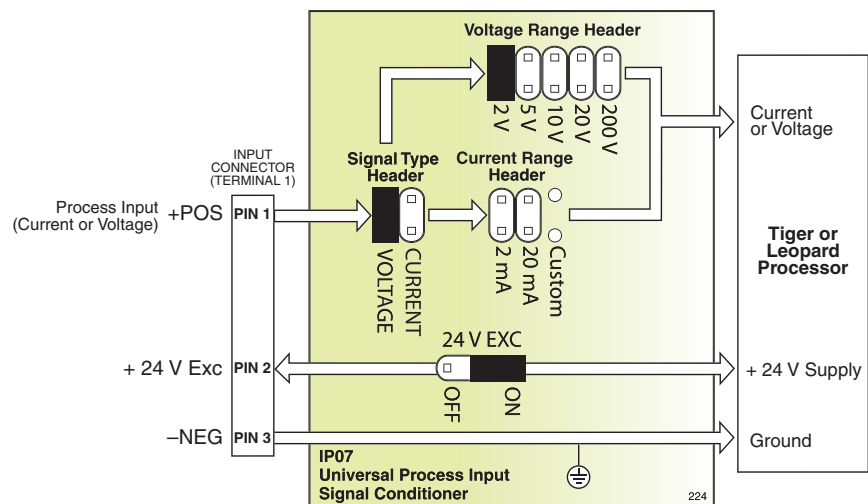


Figure 2 – IP07 Signal Flow Diagram

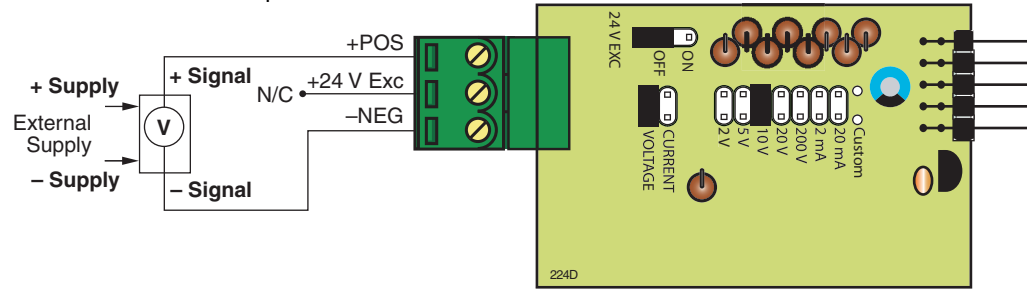
Popular IP07 Connection
Configurations

Table 1 provides a list of process input signals with and without external excitation and shows the appropriate header positions for each signal type. See diagrams on Page 3.

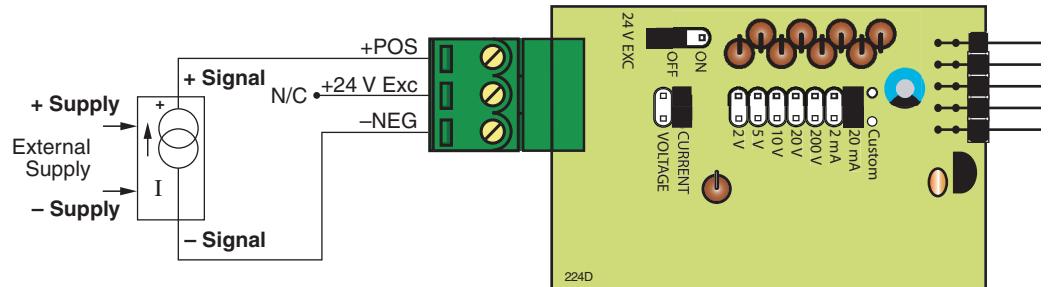
TABLE 1 POPULAR IP07 CONNECTION CONFIGURATIONS & HEADER POSITIONS			
Input	Header Positions		
	Excitation	Signal Type	Input Range
External Excitation			
0-10 V Process Input	OFF	VOLTAGE	10 V
0/4-20 mA Process Input	OFF	CURRENT	20 mA
Controller Supplied Excitation +24 V (150 mA)			
Loop Powered Sensors (Current Mode)	ON	CURRENT	20 mA
0-10 V Process Input	ON	VOLTAGE	10 V
0/4-20 mA Process Input	ON	CURRENT	20 mA

External Excitation

- 0 to 10 V Process Input.

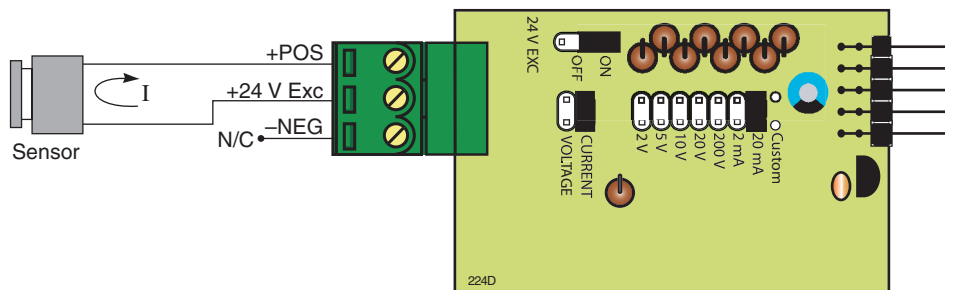


- 4 to 20 mA Process Input.

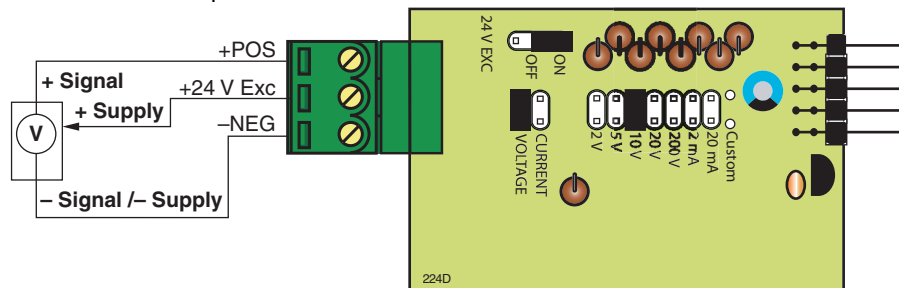


Controller Supplied Excitation +24 V (150 mA)

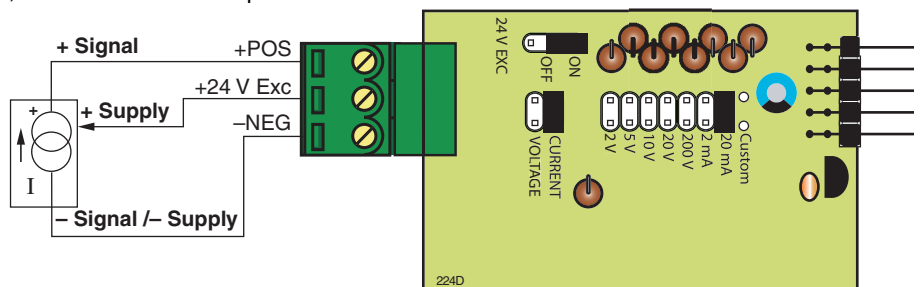
- 2-wire, Loop Powered Sensors (Current Mode).



- 3-wire, 0 to 10 V Process Input.



- 3-wire, 4 to 20 mA Process Input.



Leopard Controller

Calibration

Enter the Calibration Mode and set the [ZZero] and then the [SPAN] settings, while applying a low and then a high signal.

For a full set of calibration and decimal point placement procedures, see your relevant Leopard controller user manual.

Tiger Controller

Calibration and Input Signal Type Selection

Enter the Calibration Mode and then Code 2 to set the following calibration and input signal type settings for CH1:

CAL

000

for CH1 select

111

CODE_2

000



60 Hz Operation:

CODE_2

100

50 Hz Operation:

Code 2 frequency selection applies to all channels

Note, to calibrate the input signal for other engineering units use CH2, CH3, or CH4. These can be viewed by pressing the  or  button while in the operational display.

for CH2 select

112

CODE_4

010

for CH3 select

113

CODE_5

010

for CH4 select

114

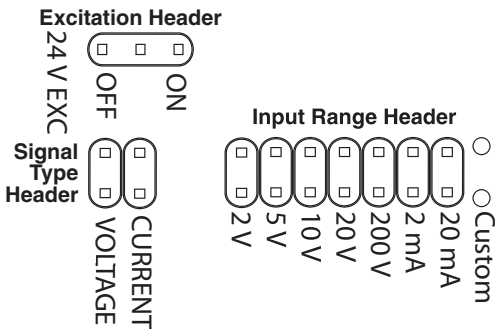
CODE_6

010

For a full set of calibration and decimal point placement procedures, see your relevant Tiger meter controller manual.

Customer Configuration Settings:

IP07 Header Settings



Calibration Settings

	Volts	Amps	Display
Input Low			
Input High			

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