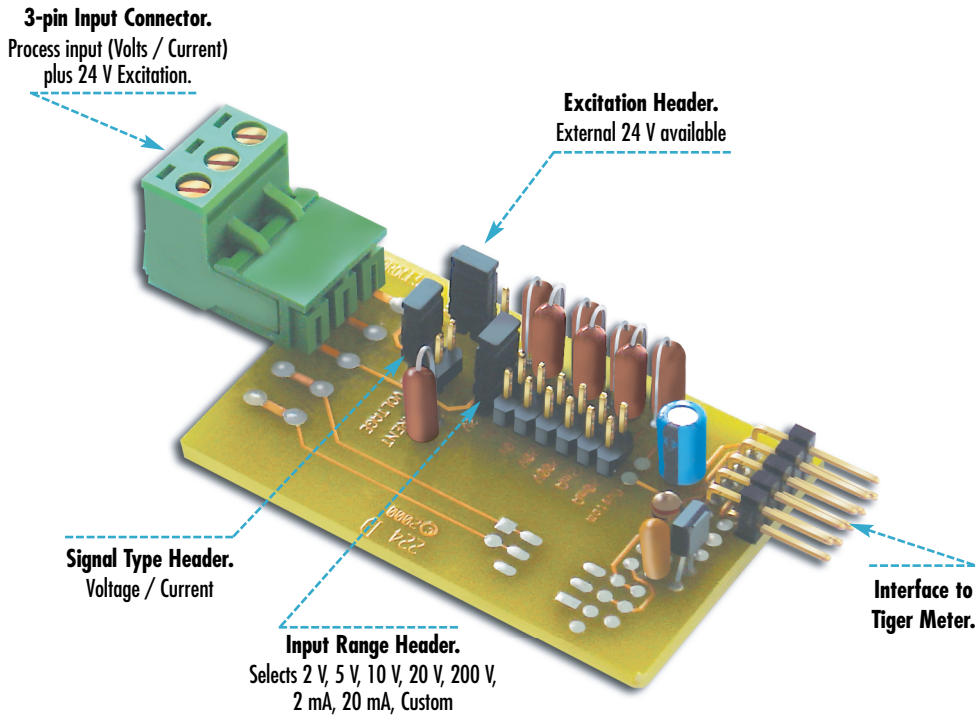


UNIVERSAL PROCESS INPUT

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

| Signal Type | Choice of DC volts or DC current (header selectable). |
|---------------------|---|
| Voltage Ranges | 2 V, 5 V, 10 V, 20 V, and 200 V DC (header selectable). (Input Impedance approximately 1 megohm) |
| Current Ranges | 2 mA, 20 mA, 1Custom (header selectable). (200 mV drop across shunt resistor) |
| External Excitation | +24 V DC (150 mA maximum). |
| Interface | Tiger 320 Series and Leopard range. |
| Accuracy | 0.05% of reading. |
| Temperature Drift | Typically 50 ppm/°C. |
| | |
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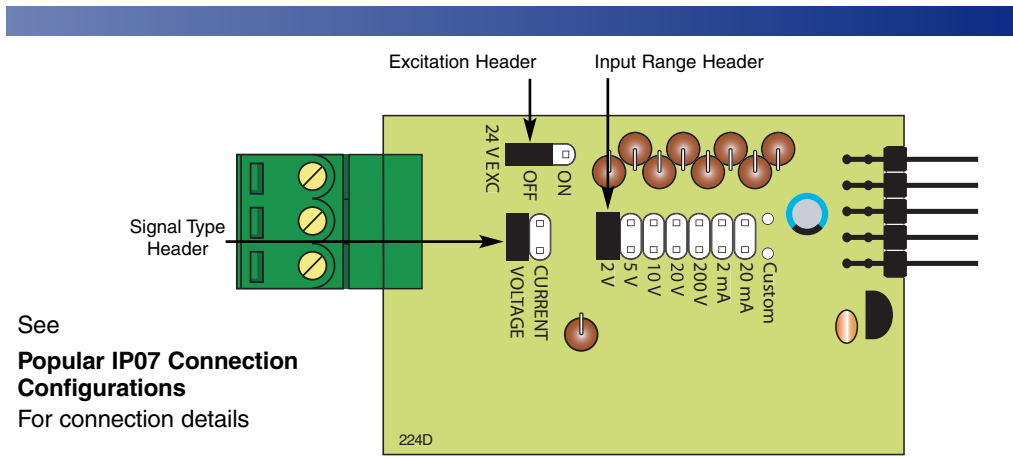


**Fits Leopard
& Tiger 320 Series**

INPUTS

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

Connector Pinouts & Module Layout



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.

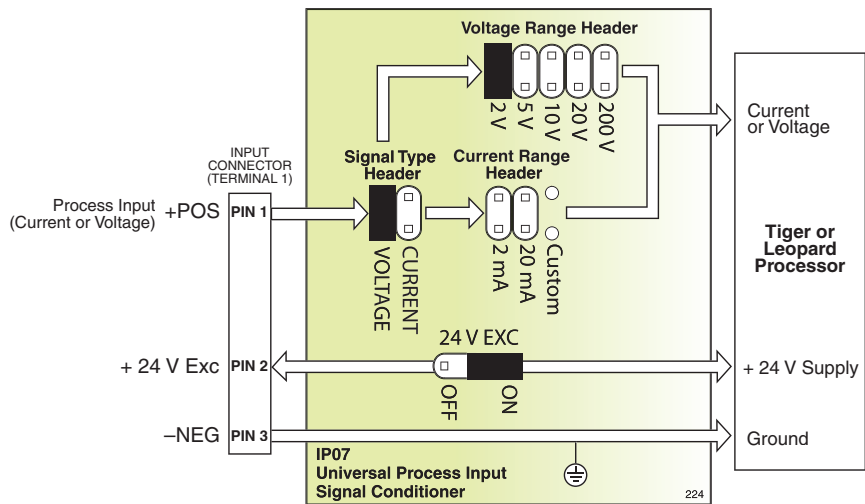


Figure 2 – IP07 Signal Flow Diagram

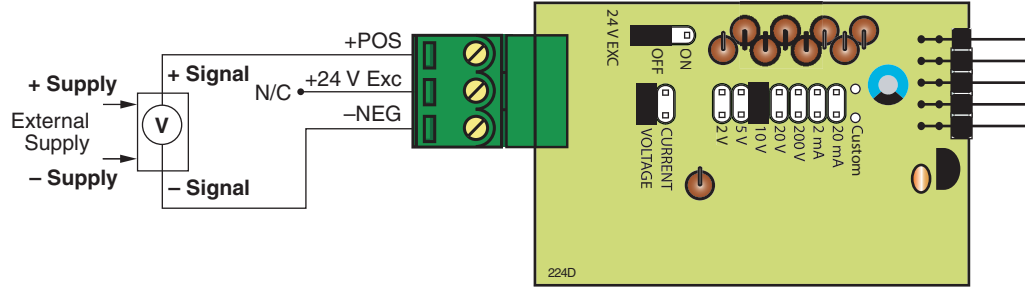
Popular IP07 Connection Configurations

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.

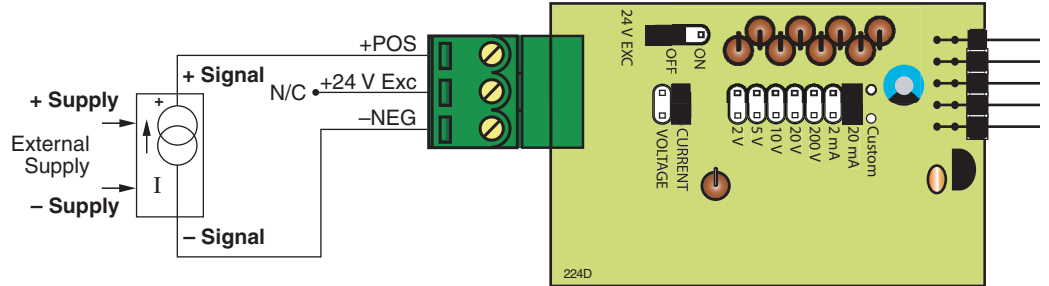
| TABLE 1 POPULAR IP07 CONNECTION CONFIGURATIONS & HEADER POSITIONS | | | |
|---|------------------|-------------|-------------|
| Input | Header Positions | | |
| | Excitation | Signal Type | Input Range |
| External Excitation | | | |
| 0-10 V Process Input | OFF | VOLTAGE | 10 V |
| 0/4-20 mA Process 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.

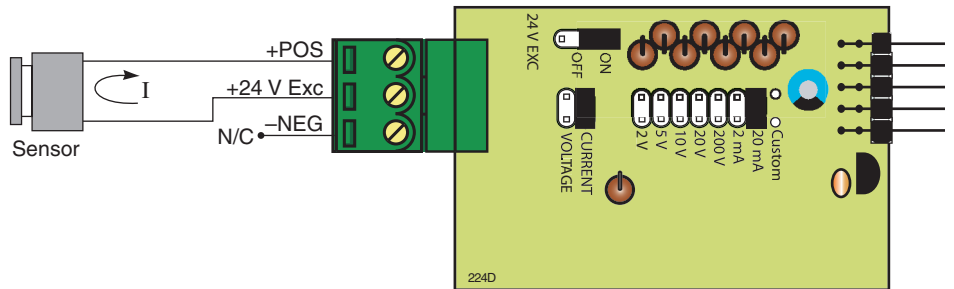


- 4 to 20 mA Process Input.

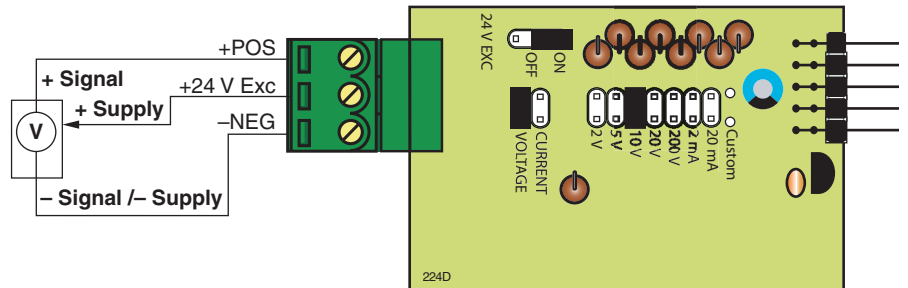


Controller Supplied Excitation +24 V (150 mA)

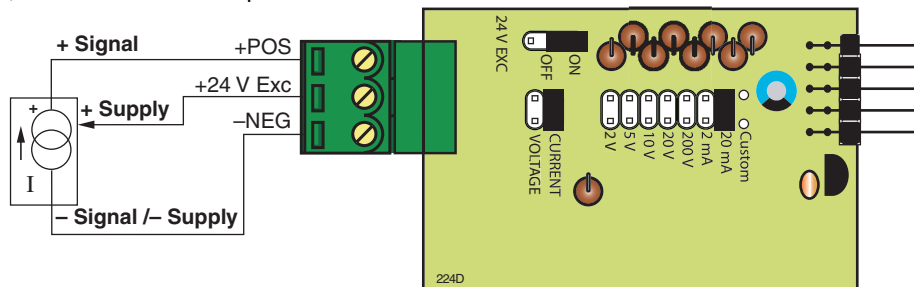
- 2-wire, Loop Powered Sensors (Current Mode).



- 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 [ZEro] 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:

for CH1 select 60 Hz Operation:
 50 Hz Operation:

Code 2 frequency selection applies to all channels

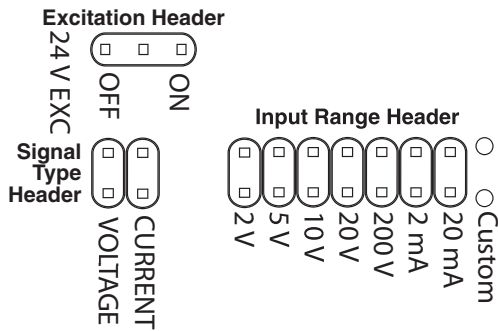
Note, to calibrate the input signal for other engineering units use CH2, CH3, or CH4. These can be viewed by pressing the or button while in the operational display.

for CH2 select
 for CH3 select
 for CH4 select

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 type="text"/> | <input type="text"/> | <input type="text"/> |
| Input High | <input type="text"/> | <input type="text"/> | <input type="text"/> |

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