

Adding 4 dimensions to linear or rotative displacement registration.

Quad inputs, complete with excitation voltage and accurate ratiometric sensing of slider or rotative position, deliver multiple axis linear displacement sensing or similar resistive measurements. Designed to interface with Tiger 320 Series controllers, the ISSA provides the capacity for accurate and continuous process control and feedback systems.

Input Module Order Code Suffix

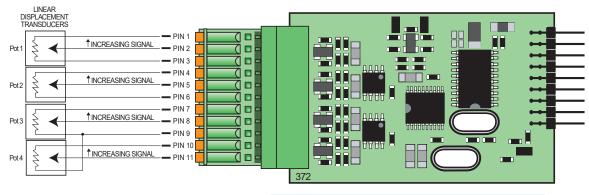




	Hardware Module Specifications
Excitation Voltage	Independent +2.5 V excitation (10 mA).
Resistance Range	1 kilohm to 100 kilohm (typical).
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A/D Converter	Quad channel ultra-low-noise 16-bit ATD with
	effective 19-bit resolution in post processing software.
Input Sensitivity	5 μV / count full scale maximum.
· · ·	
Zero Drift	± 40 μV / °C typical.
Span Drift	± 5 ppm / °C of full scale maximum.
•	
Non-linearity	± 0.003% of full scale maximum.
,	
Input Noise	30 μV p-p typical at 1 Hz output rate.
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Potentiometer Inputs	Quad, ratiometric referenced to ATD.
Resolution	1:100,000 counts of full scale (+2.5 V).
	Software Module Specifications
Output Rates	1, 5, 10, 20, or 50/60 Hz output rate for all channels.
Gain Select	Optimized for +2.5 V excitation.
Line Frequency Rejection	50/60 Hz software selectable.

INP	UTS
SMART QUAD RESISTIVE DISPLACEMENT	×

Connector Pinouts



Quad 3-wire Potentiometer Smart Module connected to four linear displacement transducers.



Smart Setup Registers

The Tiger meter uses three smart setup registers to configure all smart input modules. The line frequency rejection (50 / 60 Hz) and the a veraged output rate are configured in **smart register 1** (SMT1). See Figure 2.

Potentiometer signals, Pot 1, Pot 2, Pot 3, and Pot 4, are then individually software selected for the four input channels. Either signal can be selected f or CH1 via Code 2, CH2 via Code 4, CH3 via Code 5, and CH4 via Code 6. Note, two signals cannot be selected for the same channel.

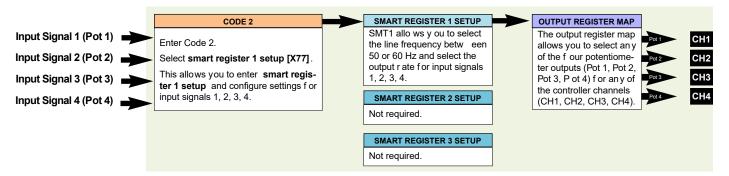


Figure 2 – ISSA Smart Setup Registers Operational Flow Diagram

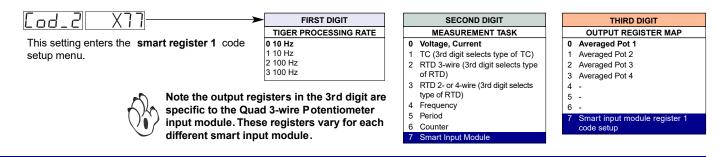
Programming Procedures

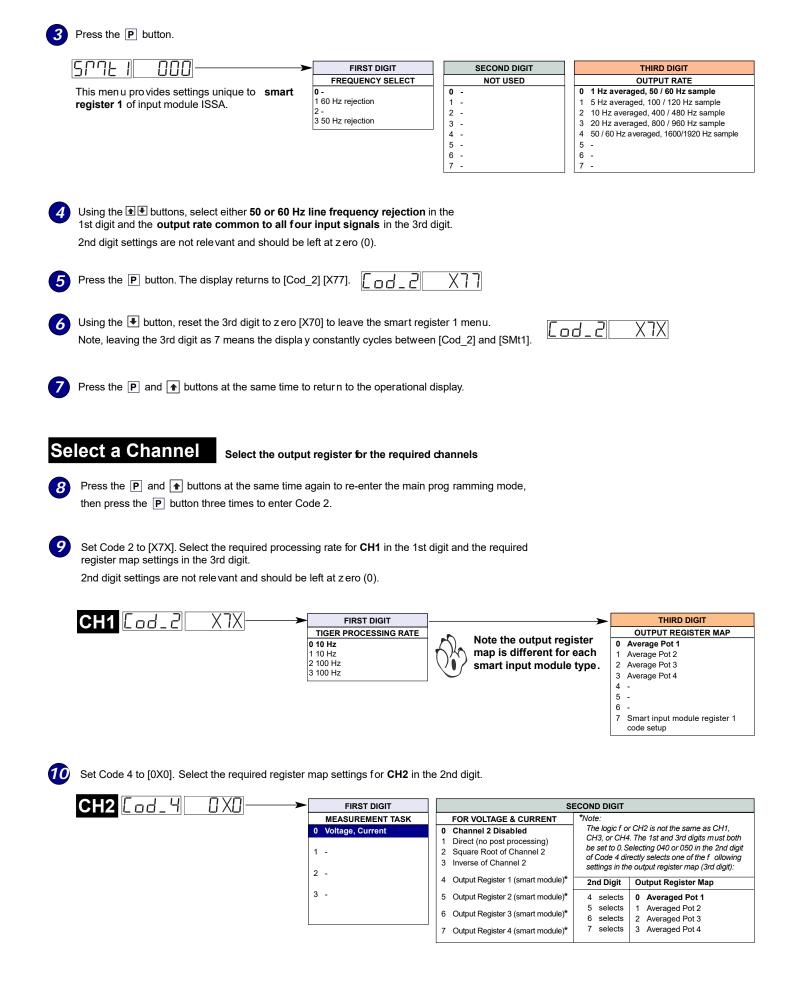
The following programming procedures cover all the steps required to configure smart input module ISSA. Steps **1** to **5** describe how to select the **line frequency** and the **output rate** through SMT1.

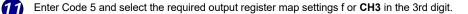
Steps 7 to 12 describe how to select the output registers for channels 1, 2, 3, or 4 as required.

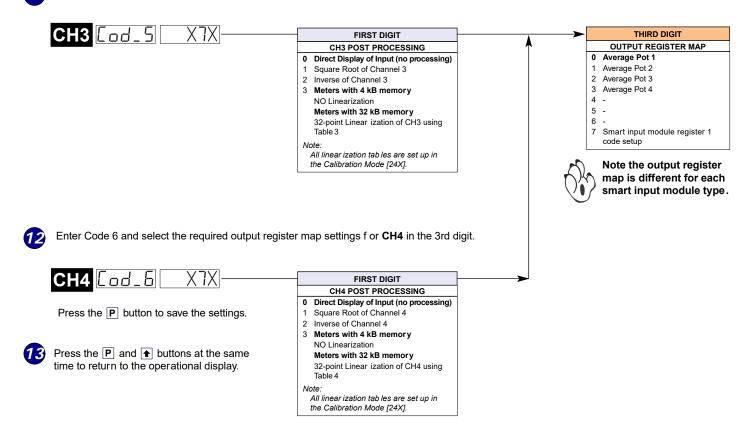
Press the P and ▲ buttons at the same time to enter the main programming mode.

2	Press the P	button three times to enter Code 2. Set Code 2 to [X77].	
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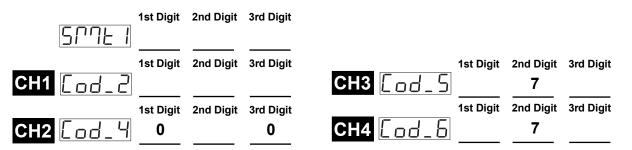








Customer Configuration Settings:



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