

The revolution in intelligent load cell controllers continues with our dual input module.

This powerful input module defines the next generation of intelligent load cell controllers, encapsulating high performance and precision measurement with dual input functionality.

When combined with the Tiger 320 Series operating system, the operator has all the solutions to weighing, bagging and continuous batching control applications. All these features plus the bonus of dual load cell inputs make this module the obvious choice over dated weighing controllers, PLC and timer technology.

Input Module Order Code Suffix

ISS5 (50 Hz Rejection) ISS6 (60 Hz Rejection)



	Hardware Module Specifications
Excitation	5 V DC, 130 mA maximum.
nput Range	Software selectable for sensors from 1 mV/V to 20 mV/V.
nput Channels	Dual, independent gains. Zero X-talk between channels
	each having 19-bit effective resolution.
nput Sensitivity	0.08 μV/Count maximum.
Zero Drift	± 40 nV/ °C typical.
Span Drift	\pm 200 ppm/ $^{\circ}$ C of full scale maximum.
Non-linearity	± 0.003% of full scale maximum.
nput Noise	160 nVp-p typical at 1 Hz output rate.
Signal Processing Rate	20 Hz maximum, 1 Hz minimum.
Frequency Select	50/60 Hz noise rejection.
	Software Module Features
Output Rates	A choice of average response outputs, 1-20 Hz.
Gain Select	Choice of industry standards, 1-20 mV/V.
Frequency Select	50/60 Hz noise rejection.
Some Relev	ant Tiger 320 Series Operating System Features
	Auto Zero Maintenance.
	Set TARE, Reset TARE.
	Setpoint Timer Functions.
	Setpoint Register Reset and Trigger Functions.
	On-demand Calibration.
	Macro Compiler for PLC Functions.
	32-Point Linearization.
	Totalizator and Serial Printing.

Load-cell

INPUTS

Smart Dual Channel

Smart Setup Registers

The meter uses three smart setup registers to configure smart input modules. ISS5 and ISS6 require **smart registers 1 and 2** to be set up. Because this is a dual input module, independent sensor inputs can be softw are selected for channels 1, 2, 3, and 4.

Sensor 1 and/or sensor 2 can be transferred to Channel 1 via Code 2, to Channel 2 via Code 4, to Channel 3 via Code 5, and to Channel 4 via Code 6.

Connector Pinouts



(for 6-wire bridge connect sense leads and swop header)

Programming Procedures

Press the **P** and **+** buttons at the same time to enter the main prog ramming mode. Note the output register Press the **P** button three times to enter Code 2. Set Code 2 to [X77]. map is different for each smart input module. Lod_ď FIRST DIGIT SECOND DIGIT THIRD DIGIT TIGER PROCESSING RATE MEASUREMENT TASK OUTPUT REGISTER MAP This setting enters the smart register 1 code Averaged signal SENSOR 1 0 10 Hz 0 Voltage, Current 0 1 10 Hz TC (3rd digit selects type of TC) Averaged signal SENSOR 2 setup menu. 1 1 2 100 Hz 2 RTD 3-wire (3rd digit selects type 2 3 100 Hz of RTD) 3 -4 3 RTD 2- or 4-wire (3rd digit selects type of RTD) 5 -4 Frequency 6 5 Period Smart input module register 6 Counter code setup Press the **P** button. Smart Inp SP7F 000 FIRST DIGIT SECOND DIGIT THIRD DIGIT SENSOR 1 INPUT mV/V (5 V Exc.) LINE FREQUENCY OUTPUT RATE This men u provides settings unique to smart 0 60 Hz rejection 1 Hz averaged 0 1 mV/V 0 register 1 of input module ISS5. 1 2 mV/V 1 5 Hz averaged 2 50 Hz rejection 2 10 Hz averaged 2 3 mV/V 3 20 mV/V 3 20 Hz averaged 4 4 5 5 --6 6 --7 7 Using the **I** buttons, select the rele vant **line frequency** rejection, sensor 1 input, and the output rate common to both sensor inputs. Press the **P** button. The display returns to [Cod_2] [X77]. lod d $X \mid I$ Using the Jutton, reset the 3rd digit to z ero [X70] to leave the smart register 1 menu. Note, leaving the 3rd digit as 7 means the display constantly cycles between [Cod_2] and [SMt1]. Press the **P** button 3 times to enter Code 5. Set Code 5 to [X77]. Cod_S Χł SECOND DIGIT FIRST DIGIT THIRD DIGIT MEASUREMENT TASK OUTPUT REGISTER MAP CH3 POST PROCESSING 0 Direct Display of Input (no No Function Averaged signal SENSOR 1 0 0 processing) Voltage, current Averaged signal SENSOR 2 1 1 Square Root of Channel 3 2 TC (3rd digit selects type of TC) 2 2 Inverse of Channel 3 RTD (3rd digit selects type of RTD) 3 3 -4 kB Meters 4 Real Time Clock & Timer (3rd digit 4 -3 NO Linearization selects type) 5 -5 32 kB Meters 6 -32-point Linear ization of 6 Smart input module register 2 CH3 using Table 3 7 Smart Input Module code setup Note. All linear ization tables are Note the output regset up in the Calibr ation ister map is diff er-Mode [24X]. ent f or eac h smar t

input module.





If required enter Code 6 and select the required post processing settings f or **CH4** in the 1st digit and the required register map settings in the 3rd digit.



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