

Weighing Module Model Number 170 ISP 001 00



The Momentum 170 ISP 001 Weighing Module is an intelligent weighing instrument. The module has one 5V load cell input and two optically coupled discrete outputs which are independently configurable. Also provided are four discrete inputs with programmable functionality. Three serial communication channels, one RS485 and two RS232, are provided. Modbus TCP/IP, Modbus Plus, Interbus, I/O bus field-bus adapters and any of the M1CPU's are also supported, providing a powerful, flexible, and cost effective solution for both stand alone and embedded weighing applications.

General Specifications

	Minimum	Maximum
Operating Temperature	-10 °C	+40 °C
Storage Temperature	-40 °C	+70 °C
Humidity	10%	95%
Power Supply	+18VDC	+30VDC
	---	0.7 Amp
Communication	ATII Interface for Communication adapters and CPU's RS 232 non-isolated RS 485 non-isolated	
Indicators	Power On LED System Status LED System Fault LED Discrete Input/Output LED's Stable Measurement LED	
Firmware Data Storage	Flash EEROM	
Module Processor	16-bit, 20MHz, Digital Signal Processor	

Module Configuration

User definable metrological setup data as well as calibration data is retained in permanent EEPROM memory. These parameters are hardware lockable for use in commercial transactions.

Product Specifications

Load Cell Interface (6 wire)

Power Supply to Load Cell	5VDC
Minimum Load Impedance	40 ohm (Eight 350 ohm cells in parallel)
Two Kelvin sense connections	
Differential Input signal	0 – 15 mV
Input impedance	> 10M ohms
Resolution	1.0 uV @ 5mS update 0.5uV @ 20mS update
Zero Drift	< 0.2uV/ °C
Gain Drift	< 10 ppm/ °C
Data Sampling Rate Programmable @ 50, 100, or 200 Hz	

Discrete Reflexive Outputs

Number of Points	2, positive logic
Nominal Voltage	24VDC
Current per point	500mA
Response Time	1mS
Isolation	2KV impulse 500V continuous

Discrete Inputs

Number of Points	4, positive logic (tare, reset Tare, print, zero)
Nominal Voltage	5 / 24VDC

Weight Indicator Display Output (TSX XBT 200)

Physical Interface	RS 485 non-isolated
Data Rate	9600 BAUD
Max Cable Length	30m

Configuration Data Input with ISP Mom software (373SPUIP01)

Physical Interface	RS 232 non-isolated
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Printer Data Output

Physical Interface	RS 232 non-isolated
Data Rate	User configurable