

LOAD CELL INSTRUMENT (7500 SERIES) MODULES

Output Options:

- Bipolar Analog Voltage Output (+/-10V)
- Analog Current Output (0-20mA or 4-20mA)
- Digital Output (RS-422 or RS-485 Outputs)

Simple Installation

Precision and Speed at Low Cost

Reliable in Electrically Hostile Environments



Analog Units: 10V analog current output and bipolar voltage output for single strain gage load cell; convert output at excellent resolution, linearity, and stability; wide range of zero, gain, and filter settings. Optional motherboard.

Digital Unit: Digital output for single strain gage load cell; two isolated logic inputs can define a time frame for automatic operations; signal conditioning, zero, and tare operations convert load cell output to kg, lbs, etc.; convert output with 16 bit resolution at 105 conversions/second; allows pt.-to-pt. or node-in-network data communication.

SPECIFICATIONS

	Bipolar Analog 7510	Analog Current 7520	Digital Output 7530
Excitation Voltage	10VDC	10VDC	5VDC
Input Range	+/-32mV	-2 to +23mV	+/-11mV
Load Cell Drive Capability, Ohms	200 to 2000	350 to 2000	350
Zero Set, Fixed Binary Steps	+/-7mV; 1mV incr.	0 to +15mV; 1mV incr.	
Zero Set, Fine Trim	+/-1.5mV	-1.5mV	
Gain Set, Fixed Binary Steps			
Range 1* to 8* as 8 increments	1*: 32mV at +/-10V	1*: 20mV for 20mA	
of 1* per incr. (input for output)	8*: +/-4mV at +/-10V	8*: 2.5mV for 20mA	
Gain Set, Fine Trim	+/-1.5mV	-1.2*, 25 turn pot (opt.)	
Non-Linearity	.01%	.01%	.01%
Resolution	Readout dependent	Readout dependent	0.2uV
Temp. Effect on Zero/°C	<50ppm	<50ppm	<50ppm
Temp. Effect on Span/°C	<50ppm	<50ppm	<20ppm
Temp. Compensated Range, °C	-10 to +40	-10 to +40	-10 to +40
Temp. Operating Range, °C	-20 to +50	-20 to +50	-20 to +50
Power Supply	12-16VDC; 70mA	12-24VDC; 50-80mA	12-24VDC; <24mA
Unit Size	81x31X6mm	81x31x6mm	81x31x6mm