

# Oyster® Multifunction Process Calibrator

## Precision Source and Measure

For thermocouples (Types J, K, and T), mA, mV, and V devices

### Features:

- Source 0 to 24mA with 0.01mA resolution
- Measure 0 to 50mA (0.1mA resolution)
- Select Type J, K, or T thermocouple for precision calibrations in °F/°C or mV
- Output 0 to 1999mV or 0 to 10.00V
- Measure 0 to 19.99V
- Single/continuous step function for Voltage and Current
- Self-contained 24V loop power supply drives current loads up to 1000Ω
- Memory for 5 user settable output values of each type for fast calibrations
- Complete with six AA batteries and calibration cable with spade lug terminals



The Oyster® trademarked design with the convenient adjustable flip up display for better viewing angle

Specifications	Range	Accuracy (of reading)
<b>DC Source</b>		
Current	0 to 24mA, -25% to +125%	$\pm(0.075\% + 1 \text{ digit})$ or $\pm 3$ digits, whichever is greater
Voltage	0 to 10V	$\pm(0.075\% + 1 \text{ digit})$ or $\pm 3$ digits, whichever is greater
Type J	-58 to 1830°F (-50 to 1000°C)	$\pm(0.15\% + 1.8^\circ\text{F or } 1^\circ\text{C})$
Type K	-58 to 2498°F (-50 to 1370°C)	$\pm(0.15\% + 1.8^\circ\text{F or } 1^\circ\text{C})$
Type T	-184 to 752°F (-120 to 400°C)	$\pm(0.15\% + 1.8^\circ\text{F or } 1^\circ\text{C})$
Loop Power	24V	$\pm(10\mu\text{V} \pm 1 \text{ digit})$
Max. Load	1000 @ 24mA	
<b>DC Measure</b>		
Current	0 to 50mA, -25% to +230%	$\pm(0.075\% + 1 \text{ digit})$ or $\pm 3$ digits, whichever is greater
Voltage	0 to 20V	$\pm(0.075\% + 1 \text{ digit})$ or $\pm 3$ digits, whichever is greater
Type J	-58 to 1830°F (-50 to 1000°C)	$\pm(0.15\% + 1.8^\circ\text{F or } 1^\circ\text{C})$
Type K	-58 to 2498°F (-50 to 1370°C)	$\pm(0.15\% + 1.8^\circ\text{F or } 1^\circ\text{C})$
Type T	-184 to 752°F (-120 to 400°C)	$\pm(0.15\% + 1.8^\circ\text{F or } 1^\circ\text{C})$
Dimensions/Weight	3.8 x 4.7 x 2.0" (96 x 118 x 45mm)/12oz (340g)	

### Ordering Information:

412400 .....Multifunction Calibrator  
412400-NIST...412400 with NIST Certificate

