



PRODUCT DATASHEET

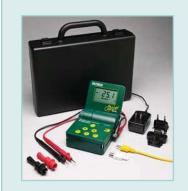
Oyster® Multifunction Process Calibrator

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

Ordering Information:

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

