

## Oyster<sup>®</sup> 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, test leads with detachable alligator clips, temperature calibration cable with spade lug connector, carrying case, neckstrap, and 100V-240V AC Universal adaptor (50/60Hz)

| Specifications    | Range  | Accuracy (of reading)                                   |
|-------------------|--|---|
| <b>DC Source</b>  |  |   |
| Current           | 0 to 24mA, -25% to +125%                       | ±(0.075% + 1 digit) or ± 3 digits, whichever is greater |
| Voltage           | 0 to 10V                                       | ±(0.075% + 1 digit) or ± 3 digits, whichever is greater |
| Type J            | -58 to 1830°F (-50 to 1000°C)                  | ±(0.15% + 1.8°F or 1°C)                                 |
| Type K            | -58 to 2498°F (-50 to 1370°C)                  | ±(0.15% + 1.8°F or 1°C)                                 |
| Type T            | -184 to 752°F (-120 to 400°C)                  | ±(0.15% + 1.8°F or 1°C)                                 |
| Loop Power        | 24V  | ±(10μV ± 1 digit)                                       |
| Max. Load         | 1000 @ 24mA                                    |   |
| <b>DC Measure</b> |  |   |
| Current           | 0 to 50mA, -25% to +230%                       | ±(0.075% + 1 digit) or ± 3 digits, whichever is greater |
| Voltage           | 0 to 20V                                       | ±(0.075% + 1 digit) or ± 3 digits, whichever is greater |
| Type J            | -58 to 1830°F (-50 to 1000°C)                  | ±(0.15% + 1.8°F or 1°C)                                 |
| Type K            | -58 to 2498°F (-50 to 1370°C)                  | ±(0.15% + 1.8°F or 1°C)                                 |
| Type T            | -184 to 752°F (-120 to 400°C)                  | ±(0.15% + 1.8°F or 1°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

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