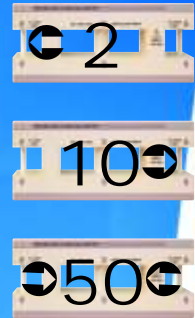


# 3000SERIES 2 / 10 / 50 CLAMP COIL ADAPTER

EA002



Designed for the calibration of both wound AC & Magnetic field hall effect AC/DC clamp meters the Transmille current coil offers several unique features built in a robust construction, complete with alignment table for ease of use.



- ▶ Calibrates Clamp Meters up to 1000A with 3050
- ▶ Calibrates Clamp Meters up to 1500A with 3041/3010
- ▶ Calibrates Clamp Meters up to 2000A with EA3012
- ▶ 2 / 10 / 50 Turn Coils
- ▶ High Accuracy AC/DC Balanced Design
- ▶ Wide range of clamp sizes covered
- ▶ Includes alignment table for repeatable readings

### Innovative Closed Construction Design

Three coils in one provide the ability to calibrate a wide range of coils, from small lower clamps down to 10mm jaw diameter to larger current clamps. The low inductance, low resistance properties allow the calibrators to easily drive the coil, giving plenty of overhead for calibrating older clamps. The coils are fully enclosed in a strong, robust and compact plastic enclosure preventing mechanical damage. This rugged design is ideal for using the coil on-site and in harsh environments.

### SPECIFICATIONS

Configuration	2 Turn (LHS) 10 Turn (RHS) 50 Turn (Centre)
Type	High Accuracy Balanced
Internal Dimensions	10mm (2/10 Turn) 25mm 50 Turn
Maximum Current Duty Cycle @ 20A Maximum RMS Voltage Frequency Range Accessories	40A 70% On / 30% Off 4V DC to 500Hz Detachable platform with alignment marks (Size 275x295x45mm)

See extended specifications for full details

# 3000SERIES OPTICAL TACHOMETER CALIBRATION ADAPTER

EA003 (for 3041/3010)



- ▶ High intensity LED light source
- ▶ Direct keyboard input in RPM
- ▶ Range : 60 to 60,000 RPM

Using a high intensity LED light source, optical tachometers can be calibrated quickly and easily. Simply enter the RPM value using the calibrator keypad or use with ProCal software for automated calibration.

### SPECIFICATIONS

Light source	High intensity LED
Range	60 to 60,000 RPM
Duty Cycle	20% on / 80% off
Accuracy	50ppm

See extended specifications for full details

# 3000SERIES HUMIDITY & TEMPERATURE SENSOR ADAPTER

EA016 (for 3041/3010)



### SPECIFICATIONS

Humidity Accuracy	10% to 90% 2%
Temperature Accuracy	0°C to 50°C 0.3°C

See extended specifications for full details

- ▶ Humidity measurement  
10% to 90%
- ▶ Temperature measurement  
0°C to 50°C

Ideal for monitoring laboratory environment allowing measurements to be made automatically and stored with calibration results.



# 3000SERIES MULTI FUNCTION WORKSTATION

(For 3041/3010) EA015



The multi function workstation provides a central work area with all connections routed conveniently to remote terminals mounted at the front of the adapter. The adapter extends the functionality of the calibrator to include :

- ▶ 2 / 10 / 50 TURN CLAMP COIL
- ▶ INSULATION RESISTANCE
- ▶ CONTINUITY RESISTANCE
- ▶ INS. TEST VOLTAGE MEASUREMENT
- ▶ CONTINUITY CURRENT MEASUREMENT
- ▶ OPTICAL TACHOMETER CALIBRATION
- ▶ THERMOCOUPLE SIMULATION
- ▶ VOLTAGE MEASUREMENT : 3 RANGES
- ▶ CURRENT MEASUREMENT TO 30mA
- ▶ CALIBRATOR OUTPUT ROUTING  
VOLTAGE, CURRENT AND HIGH CURRENT TO  
DEDICATED WORKSTATION TERMINALS



Incorporating the advanced clamp coil, thermocouple simulation and tachometer calibration adapters as well as process control source / measure capabilities, this workstation adapter provides a versatile platform for efficient calibration of a wide range of equipment.

### ▶ Clamp Meters

Using the built in 2, 10 and 50 turn coils, clamp meters can be accurately and quickly calibrated. Using a high accuracy balanced design both wound (AC only) & Magnetic field (hall effect) AC/DC clamp meters can be calibrated. Three coils in one provide the ability to calibrate a wide range of coils, from small lower clamps down to 10mm jaw diameter to larger 2000A clamps.

### ▶ Insulation Testers

Insulation tester calibration is a common requirement and is now easy to perform using the workstation. Insulation to 2GOhms @ 1000V and continuity to 1kOhm is available from dedicated terminals. Using the measurement capabilities of the adapter interface, the workstation also provides insulation test voltage measurement to 1000V and continuity current measurement.

### ▶ Process Control Calibrators

Source/measure process control calibrators are commonplace in industry and previously required several references to calibrate. The workstation integrates all the functions required to both source and measure the required signals.

### ▶ Digital Thermometers

Digital thermometers can be easily calibrated accurately using the workstation's built in thermocouple simulation output with automatic cold junction compensation.

### ▶ Optical Tachometers

Using a high intensity LED light source, optical tachometers can be calibrated quickly and easily using the workstation. Simply type in RPM value using the calibrator keypad or use with ProCal software for automated calibration.

### SPECIFICATIONS

<b>Clamp Meter Calibration</b> Range	2 / 10 / 50 Turn Coil Up to 1500A
<b>Insulation Tester Calibration</b> Continuity Resistance Insulation Resistance Continuity Current Measurement Insulation Test Voltage Measure	Up to 1kOhm Up to 2GOhms / 1000V Up to 300mA Up to 1000V
<b>Digital Thermometer Calibration</b>	J, K, T, R, S, B, N, E
<b>Process Control Calibration</b> DCV Measurement DCI Measurement DCV/I Source From Calibrator	100mV/1V/10V Ranges 30mA Range AC/DC 1000V • 30A
<b>Optical Tachometer Calibration</b> Range	60 to 60,000 RPM

See extended specifications for full details