

## 3000 SERIES PRESSURE MEASUREMENT MODULES TPM001 to TPM018 & OPTION PUMP (for 3041/3010)



The 3041 and 3010 support pressure calibration using a range of 17 available pressure modules, which connect directly to the calibrator. The pressure modules cover the range from 25mBar to 10000 PSI. A 5 PSI differential module and a  $\pm$  1Bar vacuum module are available. A hand pressure/vacuum pump is available as an option to generate pneumatic pressure up to 60Bar and vacuum down to -0.95Bar.

- ▶ Pressure measurement from 25mBar to 10,000PSI.
- ▶ Accuracy to 0.04% (dependant on pressure module)
- ▶ Optional Hand Pressure/vacuum pump available.
- ▶ Direct connection to Calibrator adaptor interface
- ▶ Use with VFP software or ProCal
- ▶ Supports all pressure units

Pressure modules are supplied with calibration coefficients, up to 3 coefficients can be stored into the calibrator to allow direct display of pressure. An unlimited number may be stored in the VFP or ProCal software. Calibration of a pressure gauge can easily be performed by connecting the hand pump to both the pressure module and the gauge under test, apply pressure and compare readings from the gauge against the reference pressure module for both rising and falling pressure.

### SPECIFICATIONS

Pressure Range	25mB to 10,000 PSI (Dependant on Transducer)
Accuracy	From 0.04%
Hand Pump	-0.95 Bar to 60 Bar

See extended specifications for full details

## 3000 SERIES TORQUE CALIBRATION ADAPTER EA014 (for 3041/3010)



- ▶ Accuracy 0.2%
- ▶ Easy to Use with Virtual Front Panel or ProCal Software
- ▶ Supports different units e.g. mNm, ftlb, etc.

By connecting a torque calibration adapter to the 3000 series calibrator torque calibration can be performed. Housing an external transducer for torque calibration allows torque screwdrivers up to 20Nm to be calibrated.

Operation is controlled from the interface using either the Virtual front panel program or ProCal software. The software reads back the voltage signal from the transducer which is converted to torque units and displayed on the PC screen.

### SPECIFICATIONS

Torque Range	0 to 20Nm
Accuracy	0.2%

See extended specifications for full details

## 3000 SERIES CARRY CASE / TRANSIT CASE OPTION SOFTCASE / OPTION TRANCASE



- ▶ Soft carry case - for on site calibration

Designed for carrying the 3000 Series calibrators when working on-site, the soft carry case includes side pockets, a large top pocket and carry strap. The lightweight design of the calibrator allows easy carrying of the unit.



- ▶ Robust transit case - suitable for shipping

Designed for transporting the 3000 Series calibrators this rugged transit case is suitable for shipping the 3000 series as well as protecting the calibrators in particularly harsh environments (oil rigs etc.). The hard wearing design includes extra corner protection and a locking mechanism.



## 3000 SERIES HIGH RESISTANCE/pA MEASUREMENT ADAPTER EA008 (for 3041/3010)



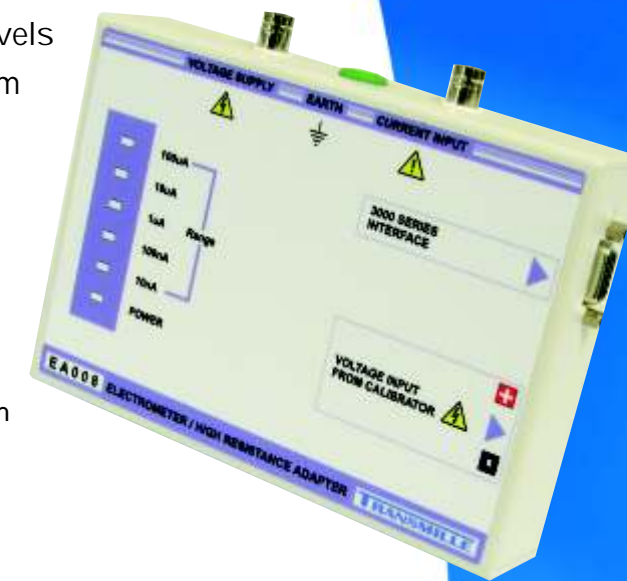
- ▶ Accurate current measurement down to pico amp levels
- ▶ Ideal for high value resistance measurement to 1TOhm
- ▶ Five ranges from 10nA to 100uA
- ▶ Supplied with VFP Software

The high resistance / pA measurement adapter eliminates the need for a separate electrometer instrument. The low cost EA008 provides 5 current measurement ranges down to 10nA with a resolution of 1pA and incorporates a 'virtual ground' input, avoiding errors due to input impedance.

Using the high voltage output from the 3000 Series calibrator together with the current measurement capability of the EA008 allows high accuracy resistance measurements to be made at any voltage up to 1000V.

The virtual front panel program supplied as standard with the adapter provides a familiar user interface with all the features such as null, filter and auto range.

Using the popular ProCal calibration software, the EA008 adapter can be used with automated procedures for comprehensive calibration of pA signals or high resistances.



### SPECIFICATIONS

Ranges	10nA • 100nA • 1uA • 10uA • 100uA
Resolution	1pA • 10pA • 100pA • 1nA • 10nA
Accuracy	0.5%
Operation	Virtual front panel or ProCal software

See extended specifications for full details

## 3000 SERIES PICOAMP SOURCE ADAPTER EA013 (for 3041/3010)



- ▶ Ideal for calibrating electrometers
- ▶ Source accurate current down to pico amp level
- ▶ Low open circuit compliance voltage
- ▶ Safe to use on sensitive input circuits.
- ▶ Supplied with VFP Software

Provide accurate calibration of sensitive electrometers and low level pico amp meters safely & quickly with this purpose designed option.

A unique and ingenious circuit designed to convert the accurate voltage output from the calibrator into low noise precision currents without the use of the destructive high voltages and unstable high value resistors often used. Yet another example of Transmille's pioneering ideas and designs for providing solutions to some of the common problems faced by calibration laboratories everywhere.

Automate Electrometer Calibration with ProCal software



### SPECIFICATIONS

Ranges	10nA • 100nA • 1uA • 10uA • 100uA
Resolution	1pA • 10pA • 100pA • 1nA • 10nA
Accuracy	0.5%
O/C Compliance	10V
Operation	Virtual front panel or ProCal software

See extended specifications for full details