

# 045B Portable Calibrator

## 045B

The Model 045B Calibrator is a portable signal source designed to test and calibrate meteorological stations that use the most common Met One Instruments' sensors and instruments. It provides direct sensor end substitution for virtually all of the Met One Instruments' sensors. Additionally, the 045B works as a direct board calibrator with the Multi-Met Model 123 and 131 translators.

### Features

- Traceable to NIST
- Battery Powered
- Connections for Common Sensors
- Multiple Test Signal Outputs
- Test and Adjust 2270 Cards

### Operation

The calibrator connectors on the 045B Calibrator allow it to be used as a direct substitute for most sensors. The 045B allows the user to select the various functions and apply a test signal directly to the input of the translator. Connector interface kits are available for various other types of sensors.

In operation with the Multi-Met Translator system, the calibrator provides a connector for the Model 2270 card of the translator. The card is inserted into the calibrator and can then be tested and aligned using the internal reference source of the 045B Calibrator.

The calibrator is designed to generate signals that simulate sensor outputs. Twelve outputs are available and selected individually by a functions switch in the calibrator, or can be input to a Multi-Met Translator module. Six connectors are provided for use as standard sensor substitution, three binding posts for special sensors, and a card edge connector for the Multi-Met Translator cards.



**045B CALIBRATOR UNIT**

### Specifications

<b>Frequency Output #1 010 Series WS Sensor</b>	272.77 Hz, 545.48 Hz, 1090.97 Hz 25.00 mph, 49.40 mph, 98.20 mph
<b>Frequency Output #2 013, 014, &amp; 034A WS Sensor</b>	13.41 Hz, 26.82 Hz, 53.65 Hz 25.01 mph, 49.00 mph, 97.00 mph
<b>Precision Voltage Outputs</b>	0.000 Volts 0.500 Volts 0.950 Volts 2.500 Volts 5.000 Volts
<b>Temperature</b>	-30 Deg C. (73,449 ohms) -10 Deg C. (42,696 ohms) +30 Deg C. (17,092 ohms) +50 Deg C. (10,545 ohms).
<b>Solar (Constant Current)</b>	150 uA (15mv into 100 ohm load)
<b>Precipitation</b>	Contact closure counting
<b>Power Requirement</b>	2 each 9 volt batteries
<b>Enclosure</b>	Weatherproof NEMA 4X case.
<b>Sensor Output Connections</b>	Six Connectors in Front Panel



## Met One Instruments, Inc.

Corporate Sales & Service: 1600 Washington Blvd., Grants Pass, OR 97526, Phone (541) 471-7111, Fax (541) 471-7116  
Distribution & Service: 3206 Main Street, Suite 106, Rowlett, TX 75088, Phone (972) 412-4747, Fax (972) 412-4716  
<http://www.metone.com>