

## CMCP-TKPW-KIT

### Pocket Wobulator Test Kit for Dynamic and Static Signal Simulation



#### Features:

- Compact, Battery Powered Wobulator
- Compact Static Calibrator Included
- For Use with Proximity Probes
- 4140 Steel Wobble Plate
- 0-15 mil Dynamic Range
- Collets for English and Metric Probe Sizes
- Precision Dial Indicator Included
- Variable Speed (0-7,000 RPM)
- Tachometer and Key Phase Notch for Speed Probes
- Includes Travel Case, Battery Pack, Charger and Mounting Magnet

#### Product Overview

The CMCP-TKPW-KIT Pocket Wobulator Test Kit is used to provide a calibrated mechanical vibration using a variable speed Wobble Plate. A precision dial indicator is placed in the probe shuttle and set at the desired amplitude. The dial indicator is then replaced with a proximity probe to simulate vibration signals. Both the proximity probe system and monitoring system can be verified by this method. The CMCP-TKPW's Wobble Plate is made from 4140 Steel, the standard material used for proximity probe calibration, and features a 0-15 mil dynamic range. The CMCP-TKPW Test Kit includes the CMCP-TKPC Pocket Calibrator for static calibration verification and features STI's QuickClick Micrometer for quick and consistent calibration.

#### Pocket Wobulator Specifications:

Material:	Anodized Aluminum
Wobble Plate Material:	4140 Steel
Dynamic Range:	0 to 15 mils (0 to 381 Microns) Minimum
Dimensions:	5.0"x3.0"x3.0" (127x76.2x76.2mm)
Weight:	1.8 Lbs (0.81kg)
Collet Sizes:	1/4", 3/8", M6, M8 and M11
Power:	22.2VDC Lithium Ion Battery
Mounting:	Handheld or Magnetic Base

#### Static Calibrator Specifications:

Material:	Anodized Aluminum
Target Material:	4140 Steel
Target Diameter:	0.938" (24mm)
Micrometer Range:	0.5" (13mm)
Micrometer Adjustment:	0.001"
QuickClick Adjustment:	0.005"
Mounting:	Handheld or Magnetic Base

#### Travel Case:

Dimensions:	12.0"x12.0"x5.5" (304.8x304.8x139.7mm)
Weight:	5.4 Lbs (2.45) Loaded

#### Kit Contents:

Qty. 1	CMCP-TKPW Pocket Wobulator
Qty. 1	CMCP-TKPC Static Calibrator
Qty. 1	Lithium Ion Battery Pack
Qty. 1	Battery Charger



- Qty. 1 Power/Charger Cable
- Qty. 1 Dial Indicator with English and Metric Units
- Qty. 5 Assorted Collects for English and Metric Probes
- Qty. 1 CMCP-MB03 Magnetic Base
- Qty. 1 Steel Plate for Table Mount
- Qty. 1 Hard Travel Case

#### **Dynamic Signal Simulation Instructions:**

Insert the 3/8" collect into the shuttle.  
Insert the dial indicator into the collet.  
Lock collet in place using the brass thumbscrew.  
Turn motor on at slow RPM.  
Adjust shuttle until the dial indicator shows the desired amplitude.  
Use thumbscrew to lock shuttle into place.  
Remove dial indicator and replace with proximity probe.

#### **Key Phase (Speed) Simulation Instructions:**

Insert a 1/4-28 threaded probe into the side bracket.  
Turn motor on and adjust speed as required.  
Probe will provide two pulses per revolution.

#### **Static Signal Simulation Instructions:**

Zero micrometer on CMCP-TKPC.  
Insert probe into collect and place into static calibrator, pressing the probe tip against the target.  
Back out micrometer in 5mil increments using STI's QuickClick adapter.  
Record probe output voltage and enter values into probe curve chart.

#### **Ordering Information:**

CMCP-TKPW-KIT-E	Pocket Wobulator Test Kit with English Units
CMCP-TKPW-KIT-M	Pocket Wobulator Test Kit with Metric Units

