



## *Calibration Accessories*





# YOUNG

# Calibration Accessories

**Model 18802 Anemometer Drive** provides a convenient and accurate way to rotate an anemometer shaft at a known rate. The motor may be set to rotate clockwise or counter-clockwise at any rate between 200 and 15,000 RPM in 100 RPM increments. The LCD display is referenced to an accurate and stable quartz timebase. For completely portable operation, the unit can be operated on internal batteries. For extended operation, an AC wall adapter is included.

**Model 18811 Anemometer Drive** is identical to Model 18802 except the drive motor incorporates a gear reducer for operation in the range of 20 to 990 RPM in 10 RPM increments. The lower range is recommended for cup anemometer calibration.

**Model 18112 Vane Angle Bench Stand** is used for benchtop wind direction calibration of the Wind Monitor family of sensors. The mounting post engages the direction orientation notch on the Wind Monitor. An easy to read pointer indicates 0 to 360 degrees with  $1/2$  degree resolution.

**Model 18212 Vane Angle Fixture - Tower Mount** similar to the Model 18112, the tower mount feature allows use on the tower as well as the bench top. The fixture is temporarily placed on the tower between the Wind Monitor and its tower mounting. Index keys and notches are engaged to preserve direction reference.

**Model 18310 Propeller Torque Disc** checks anemometer bearing torque with 0.1 gm/cm resolution. The disc temporarily replaces the propeller for torque measurement or simple yet accurate pass/fail checks. Charts included with the unit relate torque to propeller threshold with limits for acceptable bearing performance.

**Model 18312 Cup-Wheel Torque Disc** checks cup anemometer bearing torque.

**Model 18331 Vane Torque Gauge** checks vane bearing torque of the Wind Monitor family sensors. Slip the fixture over the main housing and make simple yet accurate vane torque measurements. Charts relating vane torque to vane threshold provide limits for acceptable bearing performance.

**Model 18301 Vane Alignment Rod** helps align the vane of a wind sensor to a known direction reference during installation. The base of the device has an index key that engages the direction orientation notch in the sensor allowing the sensor to be removed without losing wind direction reference.

## Specifications

### MODEL 18802 ANEMOMETER DRIVE (Replaces 18801)

**Range:**  
200 to 15,000 RPM in 100 RPM increments

**Rotation:**  
Clockwise or Counter-Clockwise

**Display Resolution:**  
1 RPM

**Quartz Timebase Reference:**  
0.1 RPM

**Power Requirement:**  
2x9 V (alkaline or lithium) batteries  
115 VAC wall adapter included  
(230 VAC – add suffix H)

### MODEL 18811 ANEMOMETER DRIVE (Replaces 18810)

**Range:**  
20 to 990 RPM in 10 RPM increments

**Display Resolution:**  
0.1 RPM

### MODEL 18112, 18212 VANE ANGLE CALIBRATION DEVICES

**Range:**  
0 to 360 degrees

**Resolution:**  
0.5 degree

### MODEL 18310, 18312 TORQUE DISC DEVICES

**Range:**  
0 to 5.4 gm-cm

**Resolution:**  
0.1 gm-cm

### MODEL 18331 VANE TORQUE GAUGE

**Range:**  
0 to 50 gm-cm

**Resolution:**  
5 gm-cm

*Specifications subject to change without notice.*

## Ordering Information

## MODEL

ANEMOMETER DRIVE 200 to 15,000 RPM .....	18802
ANEMOMETER DRIVE 20 TO 990 RPM .....	18811
230V / 50-60 HZ INPUT POWER .....	ADD SUFFIX "H"
VANE ANGLE BENCH STAND .....	18112
VANE ANGLE FIXTURE - TOWER MOUNT .....	18212
PROPELLER TORQUE DISC .....	18310
CUP-WHEEL TORQUE DISC .....	18312
VANE TORQUE GAUGE .....	18331
VANE ALIGNMENT ROD .....	18301



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