Torque Meter

840062

Instruction Manual

SPER SCIENTIFIC

Environmental Measurement Instruments

Torque Meter - 840062

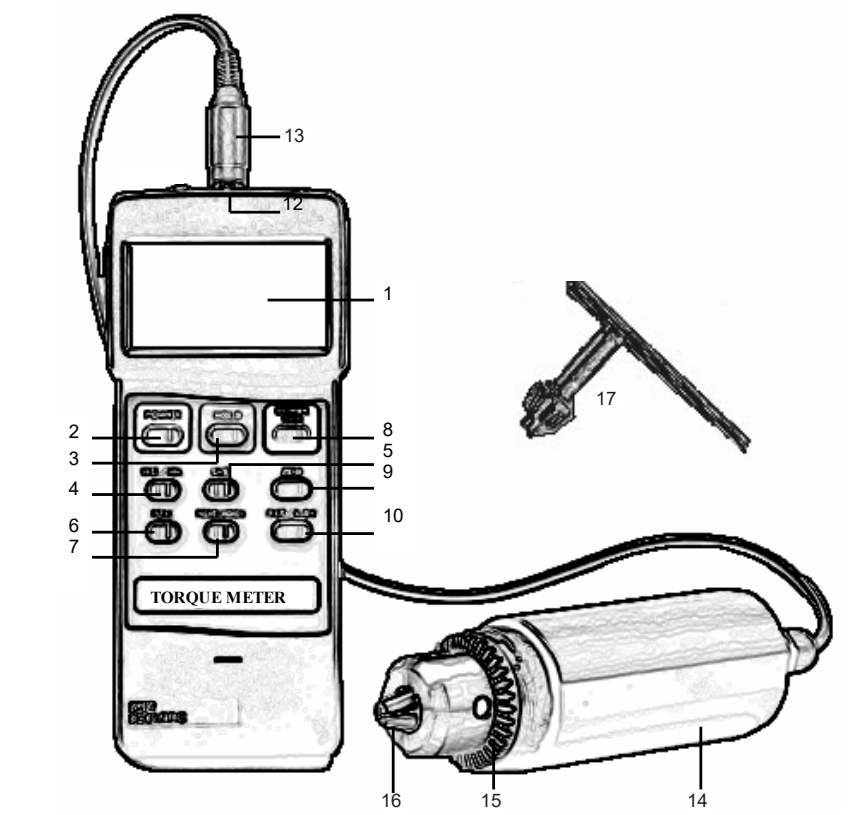
Printed in the USA

TABLE OF CONTENTS

INTRODUCTION

This portable meter is used for bolt torquing, torque wrench calibration, switch or contact closure measurement and other industrial, QC, and materials testing applications. Features three units of measure as well as hold, peak, min-max, fast/slow sampling, and hi/low resolution auto power off.

METER DESCRIPTION



1. LCD Display	7. RESOLUTION Button	13. Sensor Cable Plug
2. POWER Button	8. SENSOR TYPE Button	14. Torque Sensor Body
3. HOLD Button	9. ZERO Button	15. Gear
4. MAX/MIN Button	10. FAST/SLOW Button	16. Cramp
5. UNIT Button	11. Battery Compartment	17. Pinion
6. PEAK Button	12. Sensor Input Socket	

OPERATING INSTRUCTIONS

Measurement Procedures

- Plug the **SENSOR CABLE PLUG** into the **SENSOR INPUT SOCKET**.
- Turn on the meter by pressing the **POWER** button.
- Press the **SENSOR TYPE** button to check that the meter's sensor type matches the external torque sensor. (ie: the LCD displays 15Kg cm.)
- Press the **UNIT** button to select the unit of measure: Kg cm, LB inch or Newton cm.
- Press the **RESOLUTION** button to select High or Low resolution.

Unit of Measure	Max Range	High Res.	Low Res.	Accuracy
Kg cm	15	0.01	0.1	±1.5% + 5d
Lb in	12.99	0.01	0.1	
Newton cm	147.1	0.1	1	

- Press the **FAST/SLOW** button to select the sampling time. "F" is displayed for fast, "S" is displayed for slow.
- Connect the **CRAMP** to the object to be measured. Use the **PINION** to lock the **GEAR**.
- Before making your measurement, the LCD should display "0." If not, use the **ZERO** button to tare the unit.
- Apply the torque force. The LCD will indicate the measured value.
- Press the **PEAK** button to display and hold the peak value. The sampling time defaults to FAST and "F" will be displayed.
- During the measurement procedure, press the **HOLD** button to freeze the current measured value. The LCD will display the word: "HOLD." Press the **HOLD** button again to exit this function.

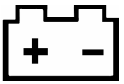
- Recording the Maximum and Minimum Readings
  - Press the **MAX/MIN** button once. “REC” appears on the LCD.
  - Press the **MAX/MIN** button again. “REC Max” and the maximum measurement appear on the LCD.
  - Press the **MAX/MIN** button again. “REC Min” and the minimum measurement appear on the LCD.
  - To exit the this function, press and hold the **MAX/MIN** button for at least 2 seconds, until the display reverts to the current reading.

Automatic Shut-off

Your meter has an automatic shut off function in order to prolong battery life. After approximately 10 minutes without activity (no buttons pushed), the meter will automatically shut off. To disable this feature, press the **MAX/MIN** button once during measurement. “REC” will be displayed.

Battery Replacement

Replace the battery when the low battery icon is displayed in the left corner of LCD. In-spec measurements may be made for several hours after the low battery indicator appears. Slide the battery cover away from the instrument, remove the battery and replace with a 9V battery (alkaline or heavy duty type). Close the battery cover.



SPECIFICATIONS

Display	2.4" x 1.3" (61 x 34 mm) 6" (15 mm) digit size
Unit of Measure	Kg - cm, LB - inch and Newton - cm
Operating Temperature	32 to 122°F (0° to 50°C)
Operating Humidity	Less than 80%
Power Supply	Alkaline or heavy duty type DC 9V battery
Power Consumption	Approximately DC 12 mA
Weight	Meter ½ lbs (225 g), Probe 1½ lbs (665 g)
Dimension	Meter 7" x 3" x 1½" (180 x 75 x 35 mm) Probe 2" x 6¼" (48 x 160 mm)
Included Accessories	Hard carrying case, instruction manual, 15 kg/cm torque probe with a 4½′ (140 mm) cable, pinion, and 9V battery

OPTIONAL ACCESSORIES

840090 - Water Resistant Instrument Pouch

WARRANTY

Sper Scientific warrants this product against defects in materials and workmanship for a period of **one (1) years** from the date of purchase, and agrees to repair or replace any defective unit without charge. If your model has since been discontinued, an equivalent Sper Scientific product will be substituted if available. This warranty does not cover probes, batteries, battery leakage, or damage resulting from accident, tampering, misuse, or abuse of the product. Opening the meter to expose its electronics will break the waterproof seal and void the warranty.

To obtain warranty service, ship the unit postage prepaid to:

SPER SCIENTIFIC LTD.
8281 East Evans Road, Suite #103
Scottsdale, AZ 85260

The defective unit must be accompanied by a description of the problem and your return address. Register your product online at www.sperwarranty.com within 10 days of purchase.

CE RoHS Compliant 2002/95/EC

Rev 3/8/2018