Reference Item # 500297

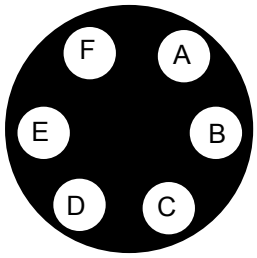
SDX Transducer Operation Instructions

Rev 1.0

SDX Application Examples

The SDX transducer is a torque screwdriver sensor for auditing, testing, or tightening fasteners to a specified torque when mated with a torque analyzer.

SDX Wiring Diagram



Wiring Code	
A =	Signal (+)
B =	Signal (-)
C =	Excitation (-)
D =	Excitation (+)
E =	N/A
F =	N/A

Operating SDX

Once the SDX is connected with a Mountz Torque Analyzer, follow the instructions in the Torque Analyzer manual for accessing external transducers.

Using Hand Tools

Make sure the application is within the torque range of the SDX model. If the application is under the torque range, then the accuracy may not be reliable. If the application is over the torque range, then you may overtorque the SDX and damage the transducer. Place the drive of the screwdriver into the application and apply torque. You may require adapters for the application or for calibration. Always make certain adapters are as short as possible and fit properly, with little “play.”

Calibration Procedures

1. Attach the SDX securely to a special fixture device.
2. Connect the SDX to a torque analyzer/display. Review the torque range of the transducer and select the appropriate measurement units.
3. Determine type of calibration to be performed.
   - *Calibration at 3 Pts.* — *Test at 10%, 50% and 100 of Full Scale.*
   - *Calibration at 6 Pts.* — *Test at 10%, 20%, 40%, 60% 80% and 100 of Full Scale.*
   - *Direction* — *Clockwise and/or Counter Clockwise*
4. Select the appropriate Calibration Arm or Wheel and attach it.
5. Gently connect the Hanger to the Calibration Arm or wheel.
6. Load 3 times to minimum 80% FS in direction of operation and reset to zero after loading.
7. Apply series of increasing torques in direction of operation starting from the lowest test point.
8. Record readings from the test device at each test point prior to performing any adjustments.
9. Repeat steps 6-8 in the opposite direction (if required).
10. Perform calibration adjustments. Repeat test as described above until readings at all test points are within tolerances.
11. Repeat test as described above and record 5 readings from test device at each test point. Compile all necessary details to generate test report.
12. Remove old calibration label and place new label on transducer.

Corporate Headquarters: 1080 North 11th Street, San Jose, CA 95112 Phone: (408) 292-2214 Fax: (408) 292-2733
www.etorque.com