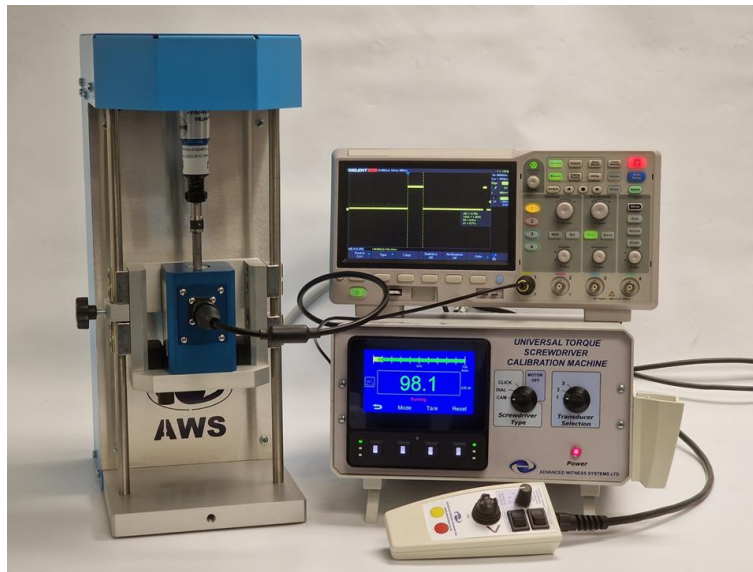


UTSCM TIMING MODULE



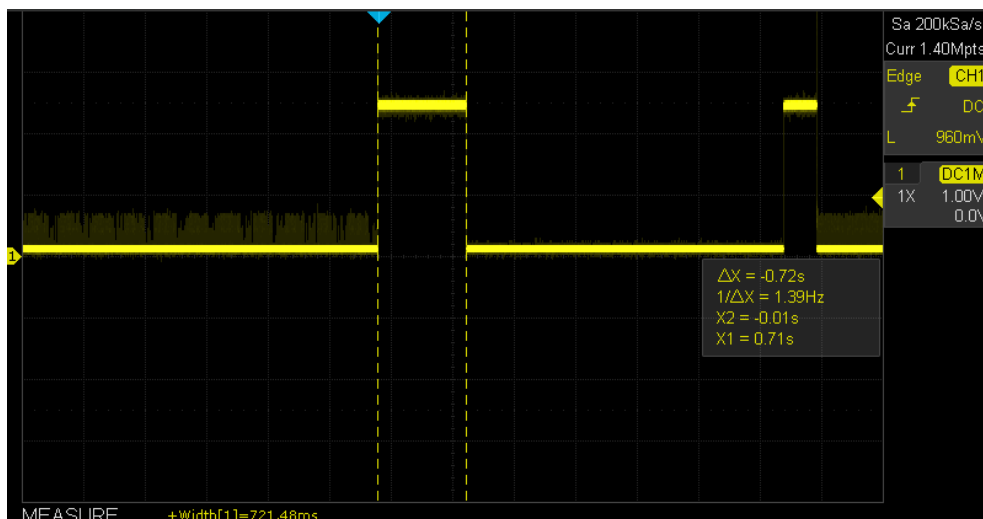
AWS UTSCM with Timing Output showing on Oscilloscope.

DESCRIPTION

The AWS Universal Torque Screwdriver Calibration Machine (UTSCM) is fitted with our Timing Module to demonstrate verification of the screwdriver timing requirements to ISO 6789:2017. This provides an independent timing output, allowing verification of the time to apply the last 20% of the target torque. This output is provided via an insulated BNC connector on the rear of the UTSCM, and takes the form of a +2.5V signal when the torque reaches 80% of the target torque, which returns to 0V when the Peak is detected. The width of this pulse can be measured to verify the timings meet the stringent screwdriver requirements of the ISO 6789:2017 standard.

TIMING MODULE OUTPUT

- Connector: Insulated BNC on rear panel of the Control Box.
- Signal: 2.5V high when 80% of the target torque has been reached. This returns to 0V when the peak is detected.



Example Oscilloscope display showing 2.5V signal, and 0.72s timing between 80% and peak.