

# INTELLIGENT ROTARY TORQUE TRANSDUCER

## DESCRIPTION

The AWS LTD Intelligent Rotary Torque Transducer range (IRTT), is designed to accurately measure torque values in a rotating shaft, in a variety of industries. With optimised torque ranges, the transducer contains our Intelligent Instrumentation Package, outputting using CAN-BUS protocol to communicate with the AWS LTD Professional Transducer Display (PTD). This digital communication eliminates signal loss when using long lengths of cable, providing flexibility in communicating with other devices and systems. The IRTT can be produced with different adapters depending on its use including square (standard) and keyway (option).

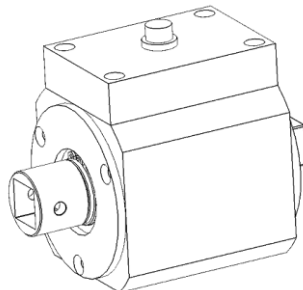
A simple 2 step calibration.

Stores serial & model number, capacity, calibration coefficient, units of calibration, and conversion to other torque units.

## SPECIFICATIONS

Model: IRTT-	1042	1043	1044	1045
<b>Ranges:</b>	2-50Nm	10-250Nm	20-500Nm	40-1000Nm
<b>Square Drive Size:</b>	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "

Accuracy:	Better than 0.1% of reading from 10 to 100% of rated output. See calibration certificate for full results.
Modes:	<b>Run:</b> For Dial-type and Electronic Wrenches and Screwdrivers. <b>Peak:</b> For Cam-type Wrenches and Screwdrivers. <b>1<sup>st</sup> Peak:</b> For Click-type Wrenches and Screwdrivers, retains reading until manually cancelled or for 3 seconds if auto cancel option is chosen.
Communications:	Communications via can bus. (When used with the AWS PTD-1010 that converts and displays the signals, shows mode selected, transducer details and output in RS232serial form).
Power and Display:	Requires only a single D.C power supply (used with AWS PTD-1010, power and display is provided).
Adapter:	The IRTT can be produced with shaft ends suitable to its intended function.
Speed:	Standard 20,000 RPM
Overload capability:	125%
Maximum mechanical overload:	160% of range stated.
Operating Temperature range:	-10°C to +50°C.
Connector:	Mil C 26482 series. 6 pin. Shell size 10.
CE:	2014/30/EU
EMC:	BS EN 61326:2007



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MANUFACTURER INFORMATION	SUPPLIER INFORMATION
Advanced Witness Systems Ltd Unit 8 Beaumont business Centre Beaumont Close Banbury OX16 1TN Tel: +44 (0)1295 266939 Email: sales@awstorque.co.uk	