

Advanced Force & Torque Indicator

The Advanced Force & Torque Indicator (AFTI) is a high-specification display unit, for use with Mecmesin 'Smart' force and torque sensors. These plug into the AFTI enabling it to automatically register either force or torque readings for a variety of test applications.



Force

- Capacity 2500N
Serial No 021316

Torque

RS232, Mitutoyo, Analogue data output for easy data transmission. TXD mode for continuous output of data

Measurements made in N, lbf, kgf, kN, N.m, kgf.cm, lbf.in, gf.cm and ozf.in with a sampling rate of 5000 Hz

Overload warning with trend bar and on board memory of 500 readings

Fully interchangeable 'Smart' sensors - No need for additional calibration of display or sensor, just 'Plug & Play'

Tension, compression and torque measurement with full unit conversion of displayed value

1st & ultimate peak capture

AFTI
ADVANCED FORCE & TORQUE INDICATOR

0.646
MAX 2 N.m

MAX ESC
UNITS MENU
TXD UP
RESET ENTER
ZERO DOWN

Pass Fail

Coms

CE

These sensors are ideal for mounting onto your own test benches and stands. They can also be used for checking calibration of your machinery to assess whether it is applying the expected load.

'Smart' Force & Torque Sensors

All sensors are fitted with 4.9 ft (1.5 m) cable length, are fully interchangeable and are supplied with Calibration Certificates traceable to Industry Standards. All sensors are delivered in padded cardboard transit cases.

Key Features

- Sensors for torque, tension & compression
- Resolution - 1:5000
- Overload protection feature
- 4.9 ft cable length as standard

force & torque plug-in sensors adaptable

All dimensions quoted for the force and torque sensors are for reference only. Please contact the Mecmesin Sales Department for tolerance information if your application is dimensionally critical.

Overload protection by software warning is typically 120% of full scale for all items (without accessories), with additional mechanical overload protection being up to a minimum of 150% of full scale.

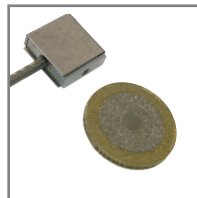
All gauges and sensors are calibrated under controlled laboratory conditions.

Resolution for all sensors is typically 1:5000 - e.g. a 5000 N loadcell resolves to 1 N.



S-Beam - 'Smart'

The S-Beam provides an economical solution to general force measurement applications where space is not restricted. Dedicated fixtures can be fitted via threaded holes.



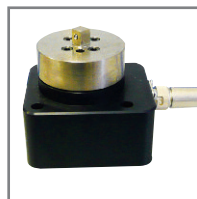
Junior S-Beam - 'Smart'

The Junior S-Beam is suitable for measuring tension and compression. Ideal for applications where available space is limited. Dedicated fixtures can be fitted via threaded holes.



Load Button Cell - 'Smart'

The Load Button Cell is a miniature sensor for compression measurement only, where available space is very limited. For optimum results, apply compressive load to the top of the sensor's central dome.



Static Torque Transducer - 'Smart'

For mounting to a bench or integrating into a complete test stand. Equipped with male square drive for easy fitting of adaptors.



Static Torque Screwdriver - 'Smart'

For low capacity applications. Used as hand-held devices or mounted in a bench stand. Not suitable for applications that require multiple rotations of the sensor - use rotary torque transducers.



Assembled in the USA

Mecmesin reserves the right to alter equipment specifications without prior notice

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