

ACTA MT4 Torque Analyzer

High quality in low-torque applications



Atlas Copco

Smart technology for low-torque precision

The new battery powered ACTA MT4 torque analyzer is probably the most compact and flexible piece of torque measurement equipment on the market. It enables you to check torque with very high precision in low-torque assembly applications such as electronics and watch manufacturing. The ACTA MT4 offers data collection capability and equipment to process the results in SPC applications in a fully up-to-date environment.



Are your tools performing to specification?

To maintain high product quality in your plant and reduce assembly problems you must be sure that your assembly tools are performing according to specification.

With ACTA MT4 you can...

- Check torque accuracy of all types of screwdrivers.
- Handle your own factory calibration.
- Make machine capability studies.
- Create statistical reports.
- Investigate torque over angle or time and characteristics of a joint (joint analysis).

A valuable quality tool

Using the new, flexible ACTA MT4, production managers can conduct torque checks on the assembly line, quality managers can check torque at the end of the line, and maintenance personnel can check torque in the tool crib. Joint Analysis software makes the ACTA MT4 a valuable lab tool for the engineering department during new product development projects.

Battery powered – convenient to use

If you need precise measurement of low torque and don't want to waste workspace, ACTA MT4 is the perfect solution. Take this compact unit with its robust aluminum housing directly to your applications. Up to 1,000 results will be stored in the controller and the rechargeable battery lasts up to one day of operation. External power supply reduces space on your workbench.

Easy set-up

The ACTA MT4 has a configurable colour display with an intuitive menu that is simple to use. Settings are: Result status, torque track, torque peak, angle, and graph.



ESD-approved



**POWERED BY
A RECHARGEABLE
BATTERY!**

Automatic transducer recognition is provided via ID-chip which selects the basic settings.

Performing 1,700 measurements/second, the ACTA MT4 makes sure that you catch the torque peak. You can choose from 16 different engineering units.

Works with all types of MT transducers

In the ACTA MT4 torque Analyzer all parts are ESD approved. It offers plug-and-play connection to all types of MT transducers – static, handheld and rotary. Two transducers can be connected at the same time. The second sensor input makes the system ideal for joint analysis by overlaying torque over time or providing results in a recommended torque range from 0.004 Nm up to 5 Nm.

Smart technology that works for you

The ACTA MT4 connects to a PC via USB, RS232 and Ethernet, ensuring that the data is stored in the right place.

Use stored data to create documentation that will minimize human error, eliminate paper handling and fulfill the requirements of external audits. Data reports can be tailored to customer request. The export function opens up endless opportunities such as using configurable Excel templates for statistics and analysis.

ToolsTalk MT Analysis

Completing this convenient quality assurance package, the additional graphical software, ToolsTalk MT Analysis, enables you to perform professional joint analysis in real time.

ACTA MT4 – smart new features

- *Connect to PC via USB/RS232/Ethernet*
- *16 different engineering units to choose from*
- *Colour configurable display (Torque/Angle/Status/Trace)*
- *Battery for portable usage*
- *Programmable via keypad or software "ToolsTalk ACTA MT"*
- *Dual transducer inputs*
- *High resolution OLED colour display*
- *Audio signal for operator feedback*
- *Digital I/O signals for communication with external devices such as PLC*
- *ESD grounding terminal*

Technical data

Model	Capacity		Overall length mm	Drive	Ordering No.
	Ncm	In.lb			
Manual screwdriver torque transducer					
MT TH 1	1.0	0.09	115	Ø 3mm	8432 0820 10
MT TH 2	2.0	0.18	115	Ø 3mm	8432 0820 11
MT TH 5	5.0	0.44	115	Ø 3mm	8432 0820 12
MT TH 10	10.0	0.88	115	Ø 3mm	8432 0820 13
MT TH 20	20.0	1.77	115	1/4"	8432 0820 14
MT TH 50	50.0	4.42	124	1/4"	8432 0820 15
MT TH 100	100.0	8.85	124	1/4"	8432 0820 16
MT TH 200	200.0	17.70	124	1/4"	8432 0820 17
Static reaction torque transducer					
MT TS 1	1.0	0.09	81	Ø 3mm	8432 0820 18
MT TS 2	2.0	0.18	81	Ø 3mm	8432 0820 19
MT TS 5	5.0	0.44	81	Ø 3mm	8432 0820 20
MT TS 10	10.0	0.88	81	Ø 3mm	8432 0820 21
MT TS 20	20.0	1.77	81	Ø 3mm	8432 0820 22
MT TS 50	50.0	4.42	98	1/4"	8432 0820 23
MT TS 100	100.0	8.85	98	1/4"	8432 0820 24
MT TS 200	200.0	17.70	98	1/4"	8432 0820 25
MT TS 500	500.0	44.25	111	1/4"	8432 0820 52
In-line rotary torque transducer					
MT TR 2	2.0	0.18	76	Ø 3mm	8432 0820 29
MT TR 5	5.0	0.44	76	Ø 3mm	8432 0820 30
MT TR 10	10.0	0.88	76	Ø 5mm	8432 0820 31
MT TR 20	20.0	1.77	76	Ø 5mm	8432 0820 32
MT TR 50	50.0	4.42	105	1/4"	8432 0820 33
MT TR 100	100.0	8.85	105	1/4"	8432 0820 34
MT TR 200	200.0	17.70	105	1/4"	8432 0820 35
MT TR 500	500.0	44.25	105	1/4"	8432 0820 36
In-line rotary torque and angle transducer					
MT TRA 2	2.0	0.18	76	Ø 3mm	8432 0820 41
MT TRA 5	5.0	0.44	76	Ø 3mm	8432 0820 42
MT TRA 10	10.0	0.88	76	Ø 5mm	8432 0820 43
MT TRA 20	20.0	1.77	76	Ø 5mm	8432 0820 44
MT TRA 50	50.0	4.42	105	1/4"	8432 0820 45
MT TRA 100	100.0	8.85	105	1/4"	8432 0820 46
MT TRA 200	200.0	17.70	105	1/4"	8432 0820 47
MT TRA 500	500.0	44.25	105	1/4"	8432 0820 48



MT TH



MT TS



MT TR



MT TRA



ACTA MT 4



Stationary
transducer

Torque analyzer

Model	Ordering No.
ACTA MT 4 (programmable over keypad*)	8432 0820 04
ToolsTalk MT Analysis (trace analysis)	8432 0830 31
Transducer cable	8432 0830 35
RS232 cable ACTA MT	8432 0831 39

*ACTA MT 4 package contains torque analyzer, software for programming ToolsTalk ACTA MT, power supply and USB cable

Stationary torque transducers, accessories

Joint Kit	Ordering No.
M1.6 for MT TS - 3H7 adaptor (up to 20 Ncm)	8432 0830 79
M2 for MT TS - 1/4" adaptor (up to 50 Ncm)	8432 0830 78
M2.5 for MT TS - 1/4" adaptor (up to 100 Ncm)	8432 0830 77
M3.0 for MT TS - 1/4" adaptor (up to 200 Ncm)	8432 0830 87
M4.0 for MT TS - 1/4" adaptor (up to 300 Ncm)	8432 0830 86
M5.0 for MT TS - 1/4" adaptor (up to 600 Ncm)	8432 0830 85
M6.0 for MT TS - 1/4" adaptor (up to 800 Ncm)	8432 0832 67

Fasteners for joint kits

Lens head screw	Bit Drive	Ordering No.
DIN7985 PH0 M1.6x4 V2A	PH0	4023 0005 01
ISO14583 TX6 M2.0x10 V2A	TX6	4023 0005 02
ISO14583 TX8 M2.5x10 V2A	TX8	4023 0005 03
ISO14583 TX10 M3.0x10 V2A	TX10	4023 0005 04
ISO14583 TX20 M4.0x12 V2A	TX20	4023 0005 05
ISO14583 TX25 M5.0x12 V2A	TX25	4023 0005 06
ISO14583 TX30 M6.0x12 V2A	TX30	4023 0005 07

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