

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



ACTA MT 4



MT TH



MT TRA



MT TS

Technical data

Model	Capacity		Overall length	Drive	Ordering No.
	cNm	in lb	mm		
Torque analyzer					
ACTA MT 4 (programmable over keypad*)					8432 0820 04
Transducer cable					8432 0830 35
RS232 cable ACTA MT					8432 0831 39
Manual screwdriver torque transducer					
MTTH 1	1.0	0.09	115	Ø 3mm	8432 0820 10
MTTH 2	2.0	0.18	115	Ø 3mm	8432 0820 11
MTTH 5	5.0	0.44	115	Ø 3mm	8432 0820 12
MTTH 10	10.0	0.88	115	Ø 3mm	8432 0820 13
MTTH 20	20.0	1.77	115	1/4"	8432 0820 14
MTTH 50	50.0	4.42	124	1/4"	8432 0820 15
MTTH 100	100.0	8.85	124	1/4"	8432 0820 16
MTTH 200	200.0	17.70	124	1/4"	8432 0820 17
Stationary reaction torque transducer					
MTTS 5	5.0	0.44	81	Ø 3mm	8432 0820 20
MTTS 10	10.0	0.88	81	Ø 3mm	8432 0820 21
MTTS 20	20.0	1.77	81	Ø 3mm	8432 0820 22
MTTS 50	50.0	4.42	98	1/4"	8432 0820 23
MTTS 100	100.0	8.85	98	1/4"	8432 0820 24
MTTS 200	200.0	17.70	98	1/4"	8432 0820 25
MTTS 500	500.0	44.25	111	1/4"	8432 0820 52
In-line rotary torque and angle transducer					
MTTRA 5	5.0	0.44	76	Ø 3mm	8432 0820 42
MTTRA 10	10.0	0.88	76	Ø 5mm	8432 0820 43
MTTRA 20	20.0	1.77	76	Ø 5mm	8432 0820 44
MTTRA 50	50.0	4.42	105	1/4"	8432 0820 45
MTTRA 100	100.0	8.85	105	1/4"	8432 0820 46
MTTRA 200	200.0	17.70	105	1/4"	8432 0820 47
MTTRA 500	500.0	44.25	105	1/4"	8432 0820 48

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

Test joints for calibration with MT TS

Model	Designation	Range cNm	Drive	Screw head profile	Ordering No.
Test joint	M6 Soft joint	500 - 1000	1/4" HEX	HEX 5 mm	8432 0833 62
	M6 Soft joint	200 - 500	1/4" HEX	HEX 5 mm	8432 0833 61
	M4 Soft joint	27 - 200	1/4" HEX	HEX 3 mm	8432 0833 60
	M3 Soft joint	5 - 27	1/4" HEX	HEX 3 mm	8432 0833 59
	M3 Soft joint	5 - 27	Ø 3 mm	HEX 3 mm	8432 0833 58
	M2 Soft joint	0 - 10	1/4" HEX	HEX 1.5 mm	8432 0833 57
	M2 Soft joint	0 - 10	Ø 3 mm	HEX 1.5 mm	8432 0833 56
	M6 Hard joint	200 - 1000	1/4" HEX	HEX 5 mm	8432 0833 55
	M4 Hard joint	27 - 200	1/4" HEX	HEX 3 mm	8432 0833 54
	M3 Hard joint	5 - 27	1/4" HEX	HEX 3 mm	8432 0833 53
	M3 Hard joint	5 - 27	Ø 3 mm	HEX 3 mm	8432 0833 52
	M2 Hard joint	0 - 10	1/4" HEX	HEX 1.5 mm	8432 0833 51
	M2 Hard joint	0 - 10	Ø 3 mm	HEX 1.5 mm	8432 0833 50

COMMITTED TO SUSTAINABLE PRODUCTIVITY

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