

ATEQ

We test, You fly.



AX7 Equipment list

BONDING TESTER MILLIOHMMETER

The **AX7** is a new-generation portable milliohmmeter designed to replace the AX6000, while keeping the same core purpose: measuring very low resistances to verify electrical continuity and contact quality. Thanks to the high-precision Kelvin 4-wire method - using two leads to inject current and two to measure voltage - it eliminates cable resistance errors and measures only the true resistance of the component, delivering highly accurate and reliable results.

➤ BENEFITS

<□□□> 3 modes for any tasks



Tactile and intuitive interface



Compact, ultra-precise milliohmmeter



Smart connectivity



8 hours autonomy



Fast, reliable, and robust



➤ APPLICATIONS

Aerospace



Railway

Automotive



Energy

➤ PC CONNECTIVITY

- Library management
- Fleet synchronization
- Centralized backup



The AX7 Bond tester is the ideal instrument for performing bonding tests on aircraft structures or grounding line tests on electric vehicles. It combines speed and accuracy, delivering precise and repeatable results that meet the most demanding industrial standards. Its versatile design makes the AX7 perfectly suited for production lines, quality control, and maintenance inspections. With a portable form factor and a wide measurement range from 1μOhm to 600hm under test currents from 100 mA to 10 A, the AX7 provides unmatched flexibility for a variety of low-resistance testing applications.

A comprehensive range of test probes and accessories allows the AX7 to perform virtually any type of measurement, even in confined or hard-to-reach environments, ensuring reliable results in all testing conditions.

GENERAL SPECIFICATIONS

Part Number (PN): EZ-0298

Commercial Name: AX7 Bond Tester

Each device has an individual serial number (S/N), which is located on the back label for tracking & traceability.

ENVIRONMENTAL CONDITIONS

Indoor and outdoor use.

Operating range: +0 to +50 °C @ 10 to 85% max RH non-condensing

Charging range: +0 to +45 °C @ 10 to 85% max RH non-condensing

Storage (without battery): - 40 to +70 °C @ 10 to 90% RH

Altitude < 3000 m

POWER SUPPLY

Removable rechargeable battery

Battery type: Li-Ion – Nominal voltage: 14.4V

Note: only approved batteries can be used with the device.

Approved batteries:

Battery Manufacturer	Battery Model	ATEQ reference
RRC	RRC-2024	T5-0028
Inspired Energy	RH3024	T5-0029

DIMENSIONS

Overall dimensions (L x l x h): 311x 229 x 157mm

Weight: 2,85kg (with battery installed) – 2,25kg (without battery)



CERTIFICATION

The device is compliant with below standards	
FCC 47 CFR PART 15: 2023	NF EN 300328 : 2020
NF EN IEC 61326-2-2 : 2021	NF EN IEC 61326-1 : 2021
NF EN 301489-1 : 2020	NF EN 301489-17 V3.2.4 : 2020
NF EN 62311 : 2008	NF EN 61010-2-030 : 2010
NF EN 61010-1 : 2010	European Directives 2014/30/EU
European Directives 2014/35/EU	FCC/IC sDoC Certification
Ingress protection: IP30 as per IEC 60529	

KEY FEATURES

ERGONOMICS

- Designed for easy transport, with a smart, robust and comfortable carrying system.
- A waist-mounted pouch allows operators to conveniently store necessary accessories without restricting movement.
- The protective outer shell not only shields the device from impacts but also prevents damage to the tested structure in case of accidental drops.
- Its stable positioning in both horizontal and vertical orientations enables remote measurements even in tight or hard-to-reach environments.
- Integrated LED indicators on the probes allow testing operations even when the device is not directly visible.

INTUITIVE INTERFACE

- Large 7-inch touchscreen display for clear and easy data visualization.
- Simple and intuitive operation, minimizing training requirements.
- Possibility to associate an image with each test point, assisting the operator during measurements.
- Configurable high and low thresholds with visual color indicators (green/red) displayed both on-screen and on the probes.
- Audible signal for quick feedback during testing.

DATA MANAGEMENT

- Supports up to 32 test sequences of 400 measurement points each.
- Manages independent libraries of 400 points.
- ATEQ Nexus PC software allows editing and storing point libraries or test sequences on a PC and sending them to a device, enabling retrieval of a library from one device and transfer to another, or quickly configuring a fleet of devices.
- Full cloud connectivity is available via the ATEQ Cloud Service for centralized data storage and synchronization via Wifi connexion.



BATTERY

- Provides up to 8 hours of continuous operation, based on a 10 A test every 20 seconds.
- Use of ATEQ SmartCharger ensures full recharge in only 3 hours.
- Removable and easily replaceable battery, compatible with standard commercial models, ensuring global availability and simplified maintenance.

MEASUREMENT RANGES

Injection Current	Available measurement ranges			
100 mA	60 Ω	6 Ω	600 m Ω	60 m Ω
200 mA	30 Ω	3 Ω	300 m Ω	30 m Ω
300 mA	20 Ω	2 Ω	200 m Ω	20 m Ω
400 mA	15 Ω	1,5 Ω	150 m Ω	15 m Ω
500 mA	12 Ω	1,2 Ω	120 m Ω	12 m Ω
600 mA	10 Ω	1,0 Ω	100 m Ω	10 m Ω
700 mA	8,5 Ω	850 m Ω	85 m Ω	8,5 m Ω
800 mA	7,5 Ω	750 m Ω	75 m Ω	7,5 m Ω
900 mA	6,5 Ω	650 m Ω	65 m Ω	6,5 m Ω
1 A	6 Ω	600 m Ω	60 m Ω	6,0 m Ω
2 A	3 Ω	300 m Ω	30 m Ω	3,0 m Ω
3 A	2 Ω	200 m Ω	20 m Ω	2,0 m Ω
4 A	1,5 Ω	150 m Ω	15 m Ω	1,5 m Ω
5 A	1,2 Ω	120 m Ω	12 m Ω	1,2 m Ω
6 A	1 Ω	100 m Ω	10 m Ω	1,0 m Ω
7 A	850 m Ω	85 m Ω	8,5 m Ω	850 $\mu\Omega$
8 A	750 m Ω	75 m Ω	7,5 m Ω	750 $\mu\Omega$
9 A	650 m Ω	65 m Ω	6,5 m Ω	650 $\mu\Omega$
10 A	600 m Ω	60 m Ω	6,0 m Ω	600 $\mu\Omega$

MEASUREMENT ACCURACY

The measurement accuracy of the device is 0.1% of reading + 0.1% of the selected range.



DISPLAYED RESOLUTION

Selected Range	Thresholds step Resolution (mΩ)	Displayed measurement result Resolution (mΩ)
from 600 μΩ to 1 mΩ	0,001 mΩ	0,0001 mΩ
from 1,2 mΩ to 10 mΩ	0,001 mΩ	0,001 mΩ
from 12 mΩ to 100 mΩ	0,01 mΩ	0,01 mΩ
from 120 mΩ to 1 Ω	0,1 mΩ	0,1 mΩ
from 1,2 Ω to 10 Ω	1 mΩ	1 mΩ
from 12 Ω to 60 Ω	10 mΩ	10 mΩ

AX7 EXHAUSTIVE ACCESSORIES LIST

MEASUREMENT ACCESSORIES

Mobile accessories

Mobile accessories can be connected to both Accessory Connectors (left  or right ) of the AX7 device.

Part Number	Cable length	Designation
10361000	2.5m	AX7 Standard Probe Tube length 50mm – Equipped with MZ-0257 head - 1 fixed and 1 movable tip
10362000	2.5m	AX7 Standard Probe Tube length 100mm – Equipped with MZ-0257 head - 1 fixed and 1 movable tip
10363000	2.5m	AX7 Standard Probe Tube length 150mm – Equipped with MZ-0257 head - 1 fixed and 1 movable tip
10750000	3m	Double Kelvin Probe 100x13 Current injection and voltage measurement are performed using separate probes
10760000	2.5m	Kelvin Probe for rivet inspection (55x7,3mm) Probe specifically designed for rivet inspection, with ultra compact design
10770000	2.5m	Probe with 2 curved fixed pins - 135mm Fixed pins at a 45° angle, spaced 2mm apart.
10900000	1m	Special Analysis Kelvin Probe Set VN/VG Equipped with banana plugs to allow connection to customer-specific interfaces.



Fixed accessories

Fixed accessories can only be connected to Right Accessory Connector () of the AX7 device

Part Number	Cable length	Designation
10780000	2m	Extra Small Kelvin Clip Straight jaws (without teeth), for contact on a flat profile of a maximum thickness of 8mm.
10790000	2m	Small Kelvin Clip Toothed jaws, max clip opening: 30mm
10800000	2m	Medium Kelvin Clip Toothed jaws, max clip opening: 40mm
10810000	2m	Large Kelvin Clip Toothed jaws, max clip opening:
10820000	12m	Kelvin Clip with fixed pins with 12m cable - for AX7 3 fixed pins – max clip opening

Extension leads

Extension leads can only be connected to Right Accessory Connector () of the AX7 device

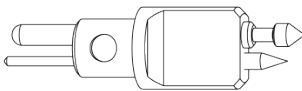
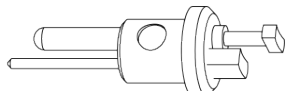
Part Number	Cable length	Designation
10830000	5m	5m extension lead for AX7 test leads
10840000	10m	10m extension lead for AX7 test leads
10850000	25m	25m extension lead for AX7 test leads
10860000	50m	50m extension lead for AX7 test leads
10870000	90m	90m extension lead for AX7 test leads

Compatibility Accessories

Part Number	Designation	Application
10681000	AX Family Adaptor 2-to-7	Adapter to connect AX6000 test and extension leads with AX7 unit.

Interchangeable heads

Interchangeable heads can be plugged on AX7 Standard probes only

Part Number	Designation	
MZ-0257	Mobile and fixed standard tips on thin nozzle head	
MZ-0262	Mobile and fixed concave tips head	



MZ-0263	Mobile and fixed round tips head	
MZ-0281	Mobile concave and fixed round tips head	
MZ-0282	Mobile round and fixed concave tips head	

Power & Connectivity Accessories

Accessories dedicated to power delivery and data transfer, ensuring stable charging and high-integrity communication between devices.

Part Number	Designation	Application
6201117	Power Supply Block - USB C	AC adapter for recharging the AX7 - EU Plug
6270186	USB-C Cable	USB-C compatible cable for AX7 charging and data transfer to a USB-C equipped PC
6270187	USB-C to USB-A Cable	Data-only USB-C to USB-A cable For connecting to a PC with a USB-A port
10440000	Ateq SmartCharger	Charging station for 2 AX7 batteries. Fast charging available.
6201118	SmartCharger power supply block	AC adapter for Ateq SmartCharger. Comes with 5 AC plugs (EU / UK / US / AU / CN)
T50028A	Battery 14,40V / 6,60Ah / 95,00Wh	Rechargeable Battery - large autonomy - Fast charging (RRC2024)
T50029A	Battery 14,40V / 6,80Ah / 98,00Wh	Rechargeable Battery - Standard autonomy - Fast charging (RH3024HD34)

Carrying Accessories

Range of carrying accessories designed to improve mobility during transport and field operations.

Part Number	Designation	Application
6170011	Strap	Comfortable shoulder strap
6170010	Belt Bag	Belt pouch for AX7 accessories
EZ-0412	AX7 Custom transport case	Allows safe storage and transport of the AX7 and its main accessories.

Photos of all accessories listed in this document are available on our website: www.ateq-aviation.com



We are also committed to sustainability reducing energy use, limiting waste, electrifying our fleet, and offering eco-friendly products.

| PITOT TEST | COBRA PITOT ADAPTERS, KITS & COVERS | LEAK TEST | BATTERY TEST | ELECTRICAL TEST

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