

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

Измеряемый диапазон	10 $\mu\Omega$ - 200 Ω	
Измеряемая длина	1000 мм	
Мин. длина образца	1700 мм / 67"	
Макс. \varnothing образца	\varnothing 8 мм / 0,31" (12 мм / 0,47" с уплотняющими зажимами)	
Сечения Класс 1 Класс 2 Класс 5/6 Секторы	Медь	Алюминий
	0,003 – 50 мм ² / 42 AWG – 0 AWG	0,003 – 50 мм ² / 42 AWG – 0 AWG
Точность (\pm 3 знака)	\pm 0,1%	
Разрешение	4 ½ знака	
Рабочий режим	Обычный (кнопки) / Расширенный (сенсорный экран)	
Дисплей	Современный интерфейс, сенсорный экран 7"	
Встроенные устройства	<ul style="list-style-type: none"> • Мерная линейка (со встроенными функциями: температура, напряжение, ток,...) • Метрология • Встроенный ПК на платформе Windows 	
Напряжение сети	100 - 240 В переменного тока / 50-60Гц	
Интерфейсы	2 x USB порта (например, для принтера) 1 x Разъем порта для внешнего монитора 2 x Разъема RJ45 для LAN соединения	
Габариты	1722 x 220 x 310 мм	
Вес	\approx 25 кг	
Артикул	32.0050.0001.00	

КОМПОНЕНТЫ

Комплект поставки:

- Измерительное устройство со встроенными функциями
- Сертификат ISO 17025

ДОПОЛНИТЕЛЬНЫЕ ОПЦИИ

С устройством могут быть поставлены:

- Контрольный блок
- Эталонный пруток
- Адаптер для кабелей
- Принтер для печати бирок
- Уплотняющие зажимы
- Система натяжения
- Программа управления
- Устройство для определения удельной проводимости/сопротивления
- Контракт на техническое обслуживание

AESA предлагает и другое оборудование для измерения в лаборатории и непосредственно на производственной линии.

ВАЖНЫЕ ПРЕИМУЩЕСТВА



USER-FRIENDLY

- ResTest is multilingual
- Direct results without post calculation
- Only two buttons for simplified use in production
- Extended function for the use in the laboratory

ISO 17025 ACCREDITED



ACCURATE

- The equipment is certified ISO 17025
- All uncertainties are mastered
- The risk of human error is reduced to its minimum
- Specifications apply to the overall measurement
- Improved repeatability thanks to adequate jaws

AESA SA AESA ResTest Resistance Bridge			
ID	AESA310	Sn :	1#05659
Date	4/15/2011	Time	8:49:00 AM
α _{CU}	0.393 %/°C	θN1	20 °C
Rmes	+3.8109 Ω/km	Duration	00:00:14 / 2
Tmes	+20.70 °C		

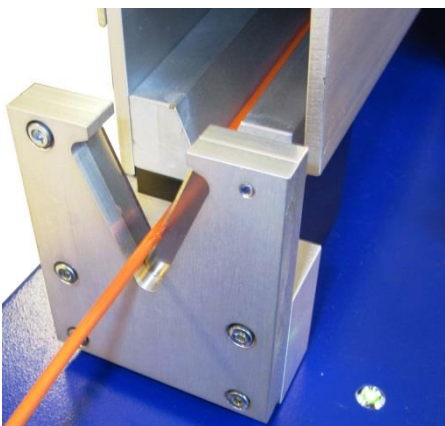
SMART

- All data (results and conditions) are saved in its internal PC
- Labels can be printed directly on site
- Data can be exported through the LAN
- Traceability is easily managed

ROI < 1 year

COST EFFECTIVE

- High accuracy allows raw material savings
- Simplicity of use reduces operational costs
- Reliable information allows process improvement
- Options can make the system even more efficient



UNIVERSAL

- All type of cables can be measured
 - class 1 (solid)
 - class 2 (stranded)
 - class 5/6 (flexible)
 - sector shaped
 - insulated conductors

Options

1. Calibration control box type AESA ResCal 1

Article No: 45.0001.0001.0

Needed to check the calibration of the different measurement scales.

Specification: $\pm 0.1\%$ and $\pm 30 \text{ ppm}/^\circ\text{C}$

Including 6 reference values:

- 1 m Ω
- 10.0 m Ω
- 100.0 m Ω
- 1.0 Ω
- 10.0 Ω
- 100.0 Ω



Delivered with ISO 17025 certificate

ISO 17025 ACCREDITED



2. Standard manganin rod $\varnothing 5.5 \text{ mm}$

Article No: 45.0030.0002.0

Needed to check the overall calibration (incl. ruler)

Delivered with ISO 17025 certificate

ISO 17025 ACCREDITED

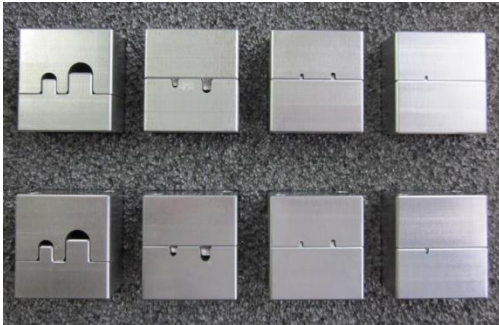


3. Kit of compacting jaws

Article No: 51.0180.0020.0

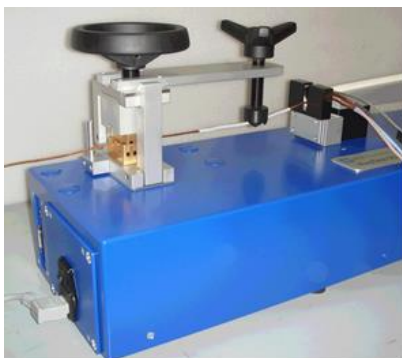
The compacting jaws increase the accuracy and reliability of the measurement.
The set includes 4 different jaws, covering diameters from 0 to 8 mm (42 AWG - 0 AWG).

They are specifically recommended for insulated and flexible cables.



4. Mechanical adapter to measure multi-conductor cable samples

Article No: 51.0030.0050.0



Adapter allowing an improved contact and mechanical separation by holding and applying a force onto a single conductor

5. Crank sleeve

Article No: 51.0030.0073.0



Adapter allowing the setting of the compacting forces with a torque wrench (not included in the supply) in an easier and repetitive way

6. Cable tensioning system

Article No: 55.0030.0075.0



Simplifies the installation of the sample in the system by allowing tensioning with a torque wrench (not included in the supply)

7. Label printer type Brother QL-570

Article No: 51.0500.0012.0



AESA SA			
AESA ResTest Resistance Bridge			
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Date	4/15/2011	Time	8:49:00 AM
α_{CU}	0.393 %/°C	θ_{N1}	20 °C
Rmes	+3.8109 Ω/km	Duration	00:00:14 / 2
Tmes	+20.70 °C		

This printer is directly connected to the USB port, printing labels like above example

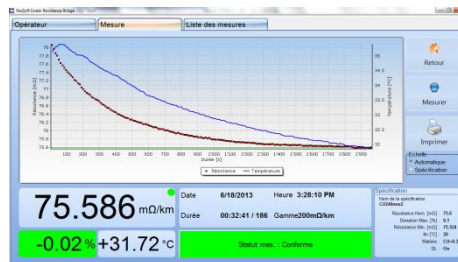
8. Control software ResSoft

Article No: 52.0030.0007.0

This software allows driving the resistance bridge in a remote mode with a compatible PC-Type computer. This is done using a USB interface.

This software enables:

- Library of conductor specifications
- Measurement monitoring
- Reporting
- Maintenance



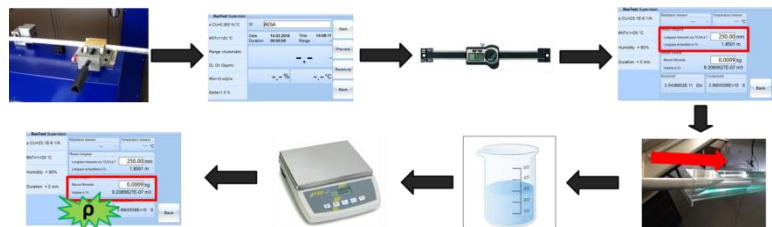
9. Conductivity / Resistivity option

Article No: 51.0030.0079.0

AESA Cortailod developed a novel, fast and accurate solution to measure the conductivity / resistivity. The principle consists in 3 different steps:

1. Resistance & temperature (with ResTest)
2. Length with special ruler
3. Cross-section by volume measurement

→ Results are automatically computed & displayed



This new solution fills a gap in the linear resistance field with the precise conductivity / resistivity measurement for Class 1 conductors (according to the IEC 60228 standard) in raw material incoming inspection test.