

ASTRE R1

COATING RESISTANCE CONTROLLER



- Hand-held, ergonomic and robust
- High measuring capacity (> 4000 measures)
- Battery operated
- Auto-range for high efficiency
- Easy-to-read measurement
- On board data storage
- Long lifetime
- Low cost device

MAIN FEATURES

- Resistance measurement
- Very large autonomy (battery operated)
- Broad measurement range
- Auto range
- Accuracy +/-10% broad scale
- Time stamped measurements
- Measurement storage
- Programmable measurement sequence
- ESD protection
- EC compliance
- Application fields: Aeronautic, Transportation, Space, Energy...

ASTRE R1 is a portable tester performing resistance measurements to control coating electrical continuity. It ensures proper coating coverage during production processes and returning the coating to the appropriate specification after MRO activities.

ASTRE R1 operates with battery and performs quick and precise resistance measurements on coatings applied to composite structures even through finishing coats of paint with finish paints up to 1 mm thickness.

ASTRE R1 realizes more than 4000 measurements and automatically records and stores up to 999 measures on board for further processing. Stored data are time stamped based on internal clock.

ASTRE R1 includes a wide range of measures (1k Ω - 200M Ω) without loss of accuracy due to its auto-range function.

ASTRE R1 displays resistance results within 3 ranges :

Range 1: 0 Ω -800k Ω on 2 to 3 digits < 20 K Ω
20 à 99 K Ω
100 à 800 K Ω

Range 2: 500k Ω -40M Ω on 4 digits 0.500 M Ω to 9.999 M Ω
10.00 M Ω to 40.00 M Ω

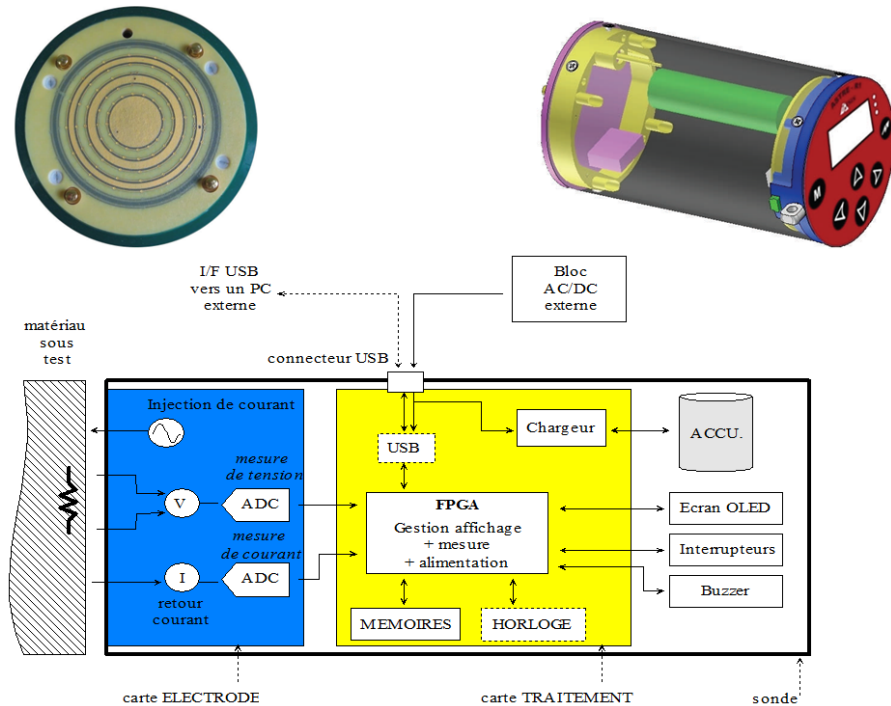
Range 3: 5M Ω -200M Ω on 4 digits 5.000 M Ω to 9.999 M Ω
10.00 M Ω to 99.99 M Ω
100.0 M Ω to 200.0 M Ω
> 200.0 M Ω display DIELECTRIC

ASTRE R1 is delivered with a standard allowing to verify correct operation any time.

Resistant to shocks and projections, **ASTRE R1** is built with quality components for long-life.

SPECIFICATIONS

ASTRE R1 synoptic view



GENERAL

Measurement range	1 k Ω - 200 M Ω
Accuracy	+/-10% broad scale
Finishing paint thickness	1mm max.
Bend radius	400 mm min
Autonomy	4 hours (> 4000 mesures)
Screen type	OLED technology, monochrome Yellow
Resolution	128 x 64 pixels
Led display	Green, Yellow and Red
Status display	Temperature, charge
Directional keyboard keys	6
Sound	Buzzer
Dimension (W x H)	88 x 150 mm
Weight	400 g
Interface	USB Type Mini-B
Battery	Li-Ion 18650 WC 2100mAh 3.7V
Battery recharge time	3 h to 1.1A
Input charger	100-240V 50/60 Hz
Output charger	5V / 4A
Operating temperature	-10°C ; +40°C
Storage temperature (without battery)	40°C ; +80°C
Humidity	5 to 95%
Compliance	EN 60950 EMC EN61000-6-4, EN61000-6-2

ACCESSORIES

Transport case	Robust suitcase (436 (L) x 302 (W) x 64 (H) with die-cut foam.
Power supply	Power cable (AC/DC) for battery charging
Etalon	Disk-shaped support

ORDERING INFORMATION

ASTRE-R1	Coating resistance controller
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