



DMA-Aero

BCE14/15

Digital Tachometer Testers

- Range: 0 - 12,000 RPM
- Reading accuracy: ± 1 RPM
- Speed stability: $\pm 0.1\%$ of reading
- Up to 3 independent drives
- "Y" or "Δ" resistive loads





DMA-Aero

BCE14/15 Standard Specifications

DOUBLE/TRIPLE TACHOMETER TESTERS

The DMA BCE14 and BCE15 are laboratory computer-driven tachometer test systems for simultaneous testing of up to three tachometers and indicators used with turbine engines. DC motors with coaxial optical encoders, precision controlled by dedicated micro-processors and quartz timing circuits, provide maximum accuracy and stability. The BCE14 is equipped with two independent drive heads and the BCE15 with three drive heads for helicopter instrument applications.

FEATURES

- Rotation speed can be displayed in %FS or RPM or both. deg/s, deg/min, rad/s, rad/min & Hz are also available.
- Speed values, rotation sense, transmission ratio & full-scale speed are independently selectable for each drive motor.
- User selectable limits are included for safe operation.
- The generators can be tested under resistive "Y" or "Δ" loads. The results are compared with the selectable limits.

CONTROLS

Speed
Acceleration
Input readings of units under test

PERFORMANCES

Warm-up & autotest: less than 1 minute
Range: 0 - 12000 rpm
Accuracy: $\pm 1 \text{ rpm} \pm 0.1\%$ of reading
Stability: $\pm 0.1\%$ of reading
Resolution: 1 rpm

SETTINGS

Limits
Full-scale speed
Transmission ratio
Test step increments

GENERATOR TEST

Automatic, resistive load can be changed. Two loads included. Other loads can be connected externally.

PRINTER

Standard paper roll for printing test results

MECHANICAL MOUNTING

AND 20005

POWER SUPPLY

90 to 240 VAC , 50 to 400Hz

CALIBRATION:

Voltage measurement calibration performed using software, comparing against accurate true RMS voltmeter. The high stability quartz time base does not require calibration.

DISPLAY AND KEYPAD

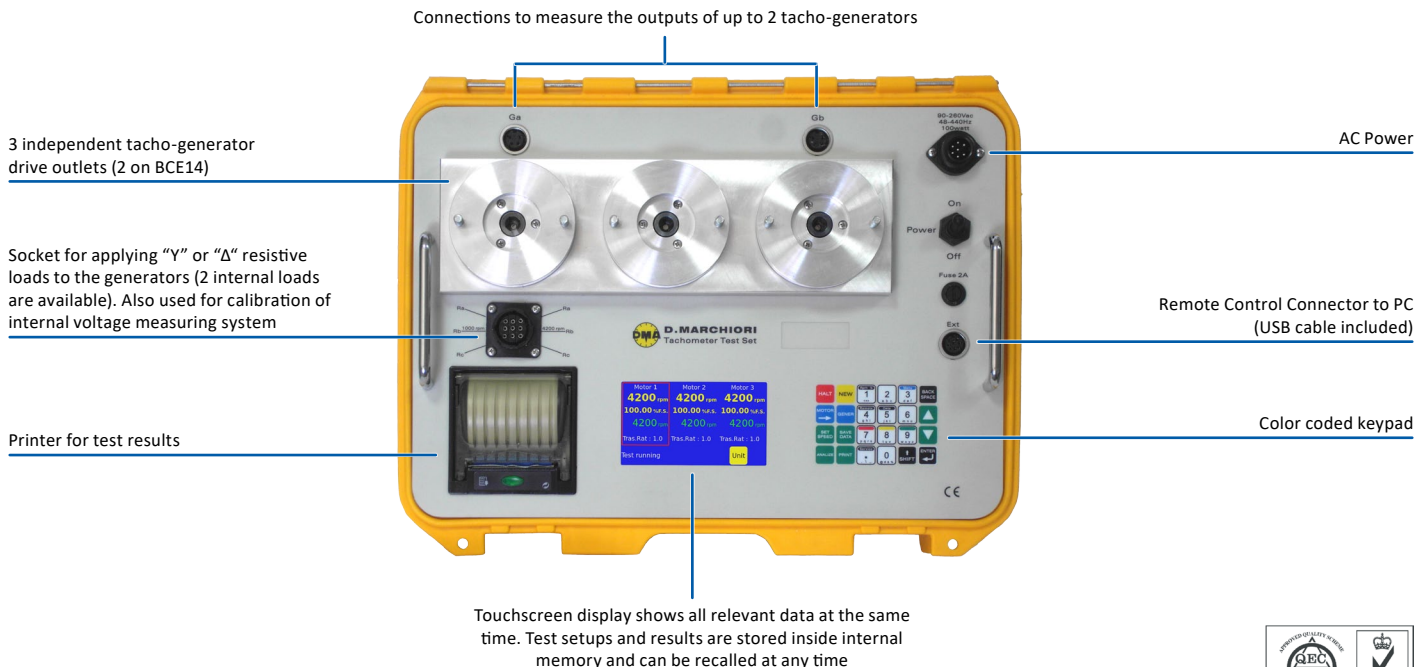
LCD backlit color touchscreen display and keypad with numeric entry and dedicated function keys.

PHYSICAL SPECIFICATIONS

Weight: 30 lb (13.5 kg)
Dimensions: 17" x 14" x 7"
(430 x 360 x 180 mm)

ORDERING INFORMATION

BCE14 Two independent generators
BCE15 Three independent generators



Ongoing development results in specifications being subject to change without notice



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