



D. Marchiori

# BCE14/15

## Digital Tachometer Testers

- Range: 0 - 12,000 RPM
- Reading accuracy:  $\pm 1$  RPM
  - Speed stability:  $\pm 0.1\%$  of reading
  - Up to 3 independent drives
    - Selectable safety limits
    - “Y” or “ $\Delta$ ” resistive loads





D. Marchiori

# 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

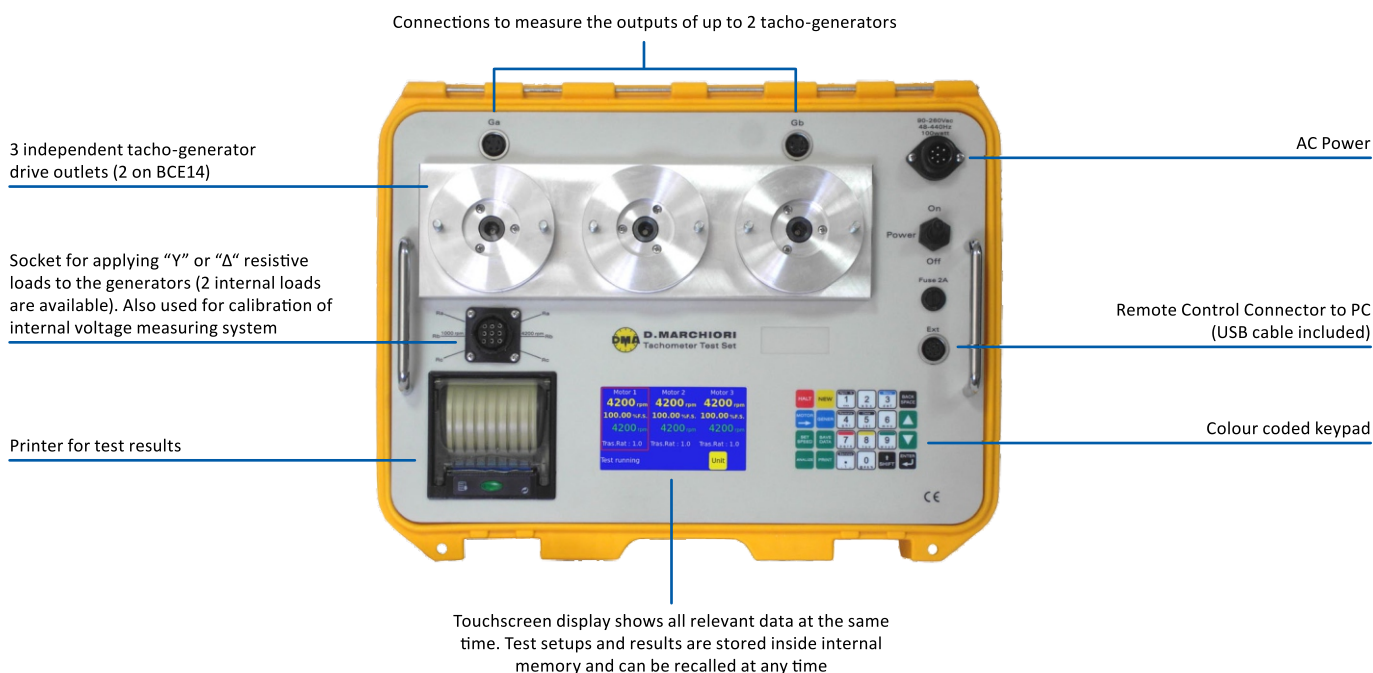
LCD backlit colour touchscreen display and keypad with numeric entry and dedicated function keys.

### PHYSICAL SPECIFICATIONS

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

### ORDERING INFORMATION

**BCE14** Two independent generators  
**BCE15** Three independent generators



Ongoing development results in specifications being subject to change without notice



7 Regents Court, South Way, Walworth Business Park,  
Andover, Hampshire SP10 5NX

T: +44 (0)1264 316470  
E:enquiries@evolutionmeasurement.com  
W: EvolutionMeasurement.com



The activities described on this data sheet are not certified by ACCREDIA  
<http://www.dma-aero.com/eu/dmarchiori-dma-accreditation>

Representative