

# BT Multiranger Series 5 Digit Bench Tachometers

## Functions as a Ratemeter, Counter, Timer or a user scaleable DVM (with analogue input module fitted)

Designed primarily for general test application of rotating machinery, these pulse related measurement instruments, are ideal for laboratory and test department applications.

In addition to speed measurement, this versatile indicator includes additional features of Totals Count, Interval Timer & a DVM option (with additional module).

This series of Digital instruments are ideal for displaying both pulse related measurements and analogue DC voltage related parameters between 0-10vdc.

The instruments incorporate a highly flexible user accessible scaling system which provides the user with the facility to calibrate the BT Multiranger read almost any related engineering parameter

### Pulse Output feature - Standard on all models

In addition the instrument is available with a variety of factory fitted modules.

### Factory fitted module options

#### Analogue Input module -

This module converts the instrument into a very versatile 5 digit DVM instrument. Accepts a signal input of 0-10 vdc which can be digitally user scaled to display any related engineering value.

#### Analogue Output module -

This module provides a DC voltage or current output from a Pulse Input signal, ideal for data logging applications.

Available in three options, 0-10 vdc, 0-20mA or 4-20mA. This output is user scaleable through the Digital scaling feature.

#### RS232 Output module

This module provides a Serial output of the displayed value.

#### Fast timebase

**These instruments have a timebase of 0.1 seconds when Analogue output & RS232 modules are fitted.**

### Main features:

- 5 digit Red LED display
- Wide speed range 0.001 - 99999 rpm
- Versatile, easy to use
- Choice of display resolutions
- Pre-scaleable displayed values
- Analogue input/output module options
- Fully user calibrateable modules
- Wide range of Speed sensors

### General Specification

Speed range	3 to 99,999 units
Resolution	Max 0.001
Accuracy	0.05% +/- 1 digit
Timebase	0.8 sec (0.1 sec with output modules)
Count mode	up to 8 digits (autorange)
Time int. mode	0.00 - 99999 secs (reciprocal)
Time Acc.	0.00 - 99999 secs (total time of all counts)
Scaling	between 0.001 - 99999 x or ÷
Signal Input	Pulses from proximity, optical, magnetic sensors & Encoders
Input freq. max	12KHz
Power inputs	110/240AC



Order Codes	Description
BT 10000	110/24V AC Selectable
BT 11000	Bench Tacho + DA1 0 - 10vdc O/P
BT 11001	Bench Tacho + 240 VAC RS232 O/P

### Speed Sensors

A range of speed sensors are available including Optical, Proximity sensors and Shaft Encoders.