

# Fowler

## Rangemaster Portable Hardness Tester

First portable, digital hardness tester of its type, the Electromatic Rangemaster has the advantage of redesigned mechanics and improved microprocessor control technology for high accuracy and repeatability. One instrument includes British, American and German standards with hardness values in Vickers, Brinell, Rockwells B and C, and tensile strength.

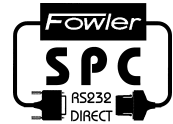
Based on the well proven principles of portable testers, a mechanical load of 15kg is applied in two stages to a diamond indenter through special pre-loaded springs. The indenter penetrates the test surface to a maximum depth of only .005", reducing damage to an absolute minimum yet giving consistently accurate results.

### Features

- Large digital readout.
- Hardness values displayed in all major international scales.
- RS232C output for connection to SPC equipment or serial printer for data collection and treatment of results either as an ongoing process or at the end of a batch of readings.
- Storage capacity for over 400 readings. Can be downloaded to a serial printer for comprehensive test reports.
- Value above or below tolerance indicators.
- Last reading recall facility.
- Battery or 110v mains power.

### Mode Functions

- Mode Key: select upper/lower tolerances; prints out stored readings; clears memory;



- sets date/time; selects calibration mode.
- -/Cancel Key: cancels previous reading; changes limits, date, time and calibration value.
- +/Recall Key: recalls previous reading, and changes limits, date, time and calibration.
- Set Range Key: selects the testing range required; sets the mode value in memory.

Hardness scales: Rangemaster features 5 international hardness scales as standard (in one unit) for a wide range of applications.

Hardness Scales	Testing Range	Resolution
Vickers Pyramid#	35 - 1000	1
Brinell	100 - 500	1
Rockwell B	30 - 100	0.1
Rockwell C	20 - 70	0.1
Tensile Strength	255 - 1999N/mm <sup>2</sup>	1



Order No.	Description
54-760-000	Rangemaster with Rockwell B, C; Vickers; Brinell and tensile strength scales and 2 calibration blocks.
53-760-020	Optional Bench Stand.
53-760-025	Optional Magnetic Holder
53-760-061	Replacement Rockwell C Test Block, high range
53-760-062	Rockwell C Test Block, low range
53-760-063	Rockwell B Test Block, high range
53-760-064	Rockwell B Test Block, low range