

45 Asphalt - Design and Testing of Bituminous Mixtures

Electronic Instrumentation

- ◆ Peak load and the corresponding flow
- ◆ Windows® download software supplied
- ◆ User-selectable SI, Metric and Imperial Units
- ◆ ECU features large character LCD display

A limitation of using conventional dial gauges in the Marshall test is the difficulty of accurately synchronising the measurement of flow with that of peak load reading.

To overcome this limitation the Marshall Test 50 load frame can easily be fitted with optional electronic load and flow measurement transducers connected to EL27-1200/09 (E)lectronic (C)ontrol (U)nit for simpler test operation and data recording.

At the end of a test the ECU will automatically hold the maximum load and flow readings enabling test data to be downloaded to a PC using the Windows® software supplied as standard with ECU.

Analysis and reporting can then be easily created in MS Excel or equivalent software.

The ECU can be programmed to automatically stop the load frame should transducer limits be exceeded, protecting test accessories and load frame drive system.

The above combination results in a powerful package to satisfy modern day laboratory Marshall testing requirements for accuracy and reliability.

Ordering Information

ECU Electronic Control and Readout Unit for use with ELE CBR, MultiPlex and Marshall machines see EL27-1200/09.

50 kN capacity S-type Load Cell see EL27-1559

EL45-6820/11 Flow Transducer. Pre-calibrated, for use with EL45-6850 Breaking Head.



EL45-6810 series Marshall Test 50 with accessories



EL27-1200/09 ECU Electronic Control and Readout Unit

MultiPlex 50

EN 12697-34, BS 598, 1377, 1924; ASTM D1883

Designed for performing laboratory CBR, Marshall stability and quick undrained triaxial tests on one load frame.

MultiPlex 50 Load Frame see EL25-3700/01