



DU100 - DETECTOR DIAGNOSTIC UNIT DATA SHEET

The DU100 hand-held test instrument provides Advanced Diagnostic capabilities for use with all the latest Nortech Inductive Loop Vehicle Detectors. This device provides installation and service personnel with positive verification of the correct operation of a vehicle detector installation. The primary function of the detector is to detect vehicle presence by means of an inductance change caused by the vehicle passing over a wire loop buried under the road surface.



Compact, Self-Contained Test Unit:

The DU100 is a low cost, battery powered, hand-held test device designed to be used on site with minimum effort and maximum results.

Exclusive Optical Readout:

The DU100 test unit extracts data from the vehicle detector by optical means. No inconvenient diagnostics plugs necessary on the detector. Advanced Diagnostics features are protected by design Patents.

No Service Disruption:

Diagnostics data is transmitted continuously during normal operation of the detector. Immediate display of actual operating conditions is possible as they occur without service interruption.

Loop Diagnosis:

Easy to read display of important detector operating parameters captured from the unit under evaluation make it easy to check detector performance.

Historical Data Availability:

Unlike other diagnostic units, the DU100 can process information retained in the detector to indicate historical operating conditions. This information is invaluable in proving intermittent faults and disproving product liability claims.

Unique Crosstalk Monitor:

The DU100 will automatically monitor operational data collected from multiple loop installations and report potential crosstalk situations. The DU100 is indispensable as a diagnostic test unit in the commissioning of new installations, for fault finding problem sites and for routine maintenance checks

- Setting detector sensitivity
- Performance checks on loop and installation
- Proving intermittent failures
- Eliminating detector crosstalk

TECHNICAL DATA - DU100

Dimensions: 200mm (height) x 100mm (width) x 40mm (depth)
Weight: 380gms including batteries

OPERATIONAL MODES

Loop mode: Displays the instantaneous loop frequency (Floop) and sensitivity ($\Delta L/L$) of the currently selected channel. This mode is used to monitor actual changes as vehicles traverse loop.

Frequency mode:

Displays the original loop frequency (Finit) and the maximum frequency drift (Fdrift) since the last detector reset.

Sensitivity mode:

Displays the maximum ($\Delta L/L_{max}$) and minimum ($\Delta L/L_{min}$) inductance change recorded

Status mode:

Indicates the current detector and loop status (tuning, detect, open circuit loop, short circuit loop)

Time mode:

Records the elapsed time since the last fault and indicates the cause of reset.

Crosstalk mode:

Allows evaluation of a potential crosstalk situation between two loops.



VICTORIA

Melbourne
Unit 2, 23 The Concord
Bundoora 3083
(03) 9467 8555

QUEENSLAND

Brisbane
4 Devlan St
Mansfield 4122
(07) 3849 6666

Gold Coast
Unit 2, 10 Lawrence Drive
Nerang 4211
(07) 5595 4795

NSW

Sydney
Unit 8, 133 McEvoy St
Alexandria 2015
(02) 9699 9654

LIFTMASTER ELECTRONICS PTY LTD A.B.N. 58 000 266 035
PO BOX 54 ALEXANDRIA NSW 1435 AUSTRALIA PH: 61 2 9699 9654 FX: 61 2 9699 8443
www.liftmaster.com.au salesdesk@liftmaster.com.au

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