

LT2 Series

Trimmer Mount Leak Detectors

PLASTECH
CONTROL SYSTEMS



Overview

The LT2 bottle leak detector is specifically designed for indexed-conveyor deflash trimmers. It has become a de-facto industry standard, fitted to new machines by the manufacturer. It is now also available as a retrofit package for machines in the field, allowing consistent, high performance leak testing where existing solutions are aging, unreliable or inaccurate. Customers experience dramatic production efficiency improvements after upgrading, due to the elimination of incorrect bottle rejection and machine down-time.



3 Channel Leak Detector Model LT2-3

Benefits

• Improved Production Efficiency

Eliminates incorrect bottle rejection without compromising test accuracy.

• Reliability

- Interference Immunity
- 50 million cycle rated valves
- Self-Diagnostics, self setting capability

• Accuracy

- High resolution A/D converter
- High flow rate pneumatics to quickly achieve bottle pressurization
- Optimised for short cycle time leak tests
- Self tuning algorithms to continuously optimise pressurization and threshold settings
- Adjustable Test Pressure

• Safety

- No behind-panel access required for machine setting
- 24V DC versions available

• Improved Operator Interface

- Full alphanumeric display Of Settings And Results
- Multinational Language Displays available
- Bargraph display of pressure, led indication of test results for each channel
- Push Button, Front Panel Settings (changes can be locked out with optional key switch)
- Correct Number Failed count for all trimmer configurations
- Panel Mounted Pneumatic Controls
- Alarm Output Option

• Simple Installation and Maintenance

- Simplified machine connection
- Simplified Internal Wiring (all electrical functions integrated onto single pcb)

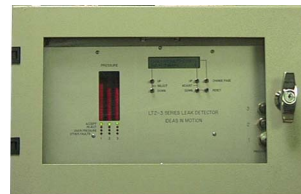
- Low operating power - reduces load on system supply
- 110VAC or 24VDC models
- Valves can be changed without removing pipes - all access from front of control enclosure.
- Manual override buttons on all valves
- Uniform design for 1,2,3 and 4 channel versions
- LED state indication on valves



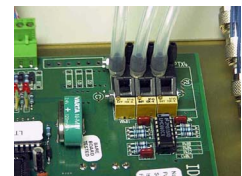
50 Million Cycle Valves. An LT2 installation typically has to do over 10 million cycles per year!

• Advanced System Architecture

- Spare I/O For Extra Functions (Handle Flash Detection, Jam detection, vision systems, alarms), brought out to standard connection
- Serial interface available for Data Logging or PLC connection
- Easy upgrade of system to include extra facilities even after installation
- Competitive Pricing



Lock-able Steel Control Cabinet. (Internal door independently locked)



1-4 Channels on the same Circuit Board

Options

- Flash Detection
- Blow-off Chute Backup Detection
- Inverted Reject
- Data Logging / SPC

Specification

| | |
|--------------------------------|--|
| Hole Size Detected | 0.1mm (for a 500ml bottle and a 2 second test time). See Performance Graphs for other sizes. |
| Number of Test Channels | 1,2,3 or 4 (Specify when ordering) |
| Cycle Time | 0.5 - 20.0 seconds, adjustable |
| Minimum Bottle Volume | 250ml (1/2 pint) |
| Maximum Bottle Volume | 25 litres (6 gallons) |
| Test Pressure | Adjustable, 5-50 mB |
| Power Supply | 100-125VAC single phase or 23-26VDC@750mA (specify when ordering) |
| Power Consumption | 30 VA maximum |
| Air Supply | 60-150 psi (4-10 bar) |
| Air Consumption | 1 litre per minute typical |
| Dimensions | Control system enclosure 470x300x180mm, all models (1,2,3,4 channel) |
| Leak Test Method | Ratiometric Pressure Decay, Auto-zero, Auto-Scale. Adaptive pressurization algorithm. |
| Transducer | Semiconductor strain gauge diaphragm, 0.00 - 65.00 mB, 0.02% resolution, x20 Over- pressure Protection. |

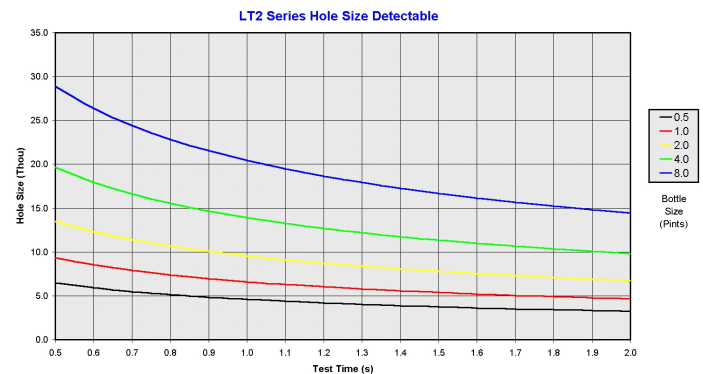
Ordering Information

Quote LT2-X-YY e.g. LT2- X = Number of heads = 1-4,
4-DC YY = supply = AC or DC

For more details contact the office, our distributors or see our web site www.plastech-controls.com, where you can obtain complete on-line sales literature, user manuals and technical documentation.

Performance Graphs

These graphs show the hole size detectable for various bottle sizes and test times.



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