

LTU6000 Leak Tester

Overview

The LTU6000 updates the control system of our bestselling LT2 series leak detector. It is specifically designed for fitting flat-bed, indexed-conveyor deflash trimmers. It can also be used for other "in-machine" applications.



Lockable Steel Control Cabinet

Benefits

IMPROVED PRODUCTION EFFICIENCY

- Eliminates incorrect bottle rejection without compromising test accuracy.

RELIABILITY

- Interference Immunity
- 50 million cycle rated valves
- Output relays use solid state switches for both AC and DC systems
- Surface mounted PCB
- Self-Diagnostics, self-setting capability

ACCURACY

- High speed 24 bit Analog to Digital converter provides ultimate pressure sensing accuracy and resolutions
- High flow rate pneumatics to quickly achieve bottle pressurization
- Optimized for short cycle time leak tests
- Self tuning algorithms to continuously optimize pressurization and threshold settings.
- Adjustable Test Pressure

SAFETY

- No behind-panel access required for machine setting
- 24V DC versions available as standard. Convert to AC system with plug-in module.

IMPROVED OPERATION INTERFACE

- Simple, clear graphical color touchscreen

- Multinational Language Displays available
- Bar graph 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 & MAINTENANCE

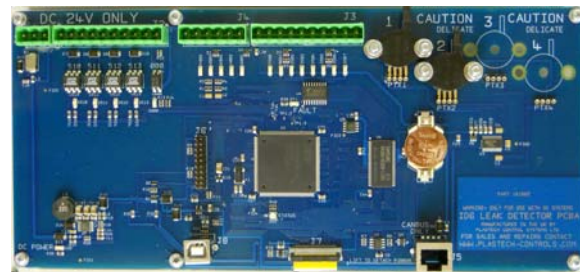
- Simplified machine connection
- Simplified Internal Wiring (all electrical functions integrated into single PCB)
- Low operating power reduces load on system supply
- 110VAC or 24VDC models
- Valves can be changed without removing hoses – all access from front of control enclosure.
- Manual override buttons on all valves.
- Uniform design for 1, 2, 3 and 4 channel versions
- LED state indication on valves



Valves rated at over 50 million cycles – An LTU6000 installation typically has to do 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
- Easy firmware updates to add new features, requires only a standard USB cable
- Plug-in pressure transducers, allows easy upgrade or replacement.
- Cost Effective



1-4 Channels on the same Circuit Board

LTU6000 Specification

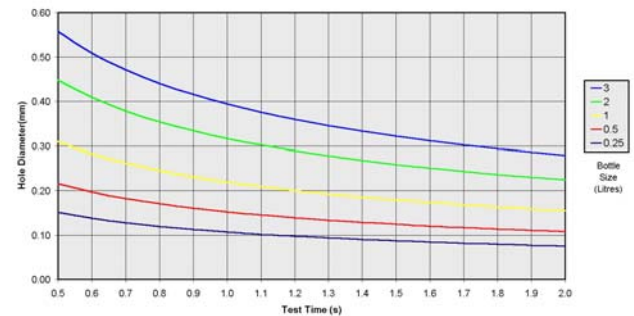
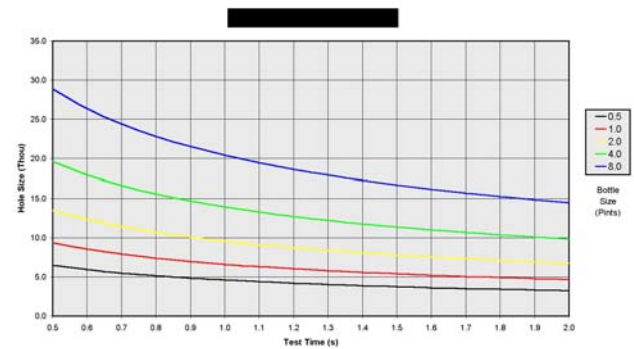
Hole Size Detected / Bottle Throughput	0.1mm (for 500ml/16oz bottle and a 2 second test time) See performance graphs for details.
Number of Test Channels	1, 2, 3 or 4 (specify when ordering)
Cycle Time	0.5 - 20 seconds, adjustable
Minimum Bottle Volume	250 ml / 8 oz
Maximum Bottle Volume	25 liters (5 gallons)
Test Pressure	Adjustable, 5 – 100 mB
Electrical Power Supply	100-125 VAC single phase or 23-26VDC @ 750mA (specify when ordering)
Electrical Power Consumption	30 VA maximum
Air Supply	4-10 bar (60-150 psi)
Air Consumption	1 liter per min. typical
Leak Test Method	Ratiometric Pressure Decay, Auto-zero, Auto-scale. Adaptive pressurization algorithm
Transducer	Semiconductor strain gauge diaphragm, 0.00-100.00 mB, 0.000007% resolution, x20 Over-pressure protection

To use the graphs, first choose the graph with the nearest bottle size (shown at bottom). Find a colored line where the required hole size and throughput intersect. Read off the number of heads required from the key on the right of the graph. Contact the office if in doubt.

For further details contact us or visit our web site at www.necco.us

Performance Graphs

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



Simple Maintenance- Friendly Layout – All Electrical Functions on Single PCB



NECCo has the ability to provide engineering, equipment, installation, service and spare parts for all of your packaging needs. Please feel free to contact us about any of the following:

Baggers (Automatic)
Baggers (Semi-Automatic)
Debaggers
Annealing Ovens
Scrap and Resin Systems

Cable Conveyor
Mattop Accumulation Conveyor
Tabletop Conveyor
Inclines and Declines
Ideas In Motion Support