Furness Controls

new generation
pressure decay

LEAK DETECTOR

FCO730



- Entry Level Model
- Cost Effective Leak Test solution
- Fully interfaced with both PC's and PLC's
- Optional Multi-Test Version with Single Sequence and 8 Tests

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The use of 'Flash' technology facilitates the ability to upgrade the instrument's firmware via a PC anywhere in the world.

Description

The FCO730 Leak Detector is an entry level' pressure decay Leak Detector with advanced communications. Based on the latest 32-bit Micro-Controller technology, the FCO730 opens the door on the next generation of Furness Controls Leak Detectors. Through the RS232C or Isolated RS485 communication ports the FCO730 fits neatly into a leak detection system based upon data control through a host PC. The FCO730 is also PLC compatible through transistor inputs and outputs.

Firstly the FCO730 is ideal for applications where multiple test-heads are needed, such as on a rotary table. Secondly as a stand alone' instrument the FCO730 has much to offer as a basic no frills' pressure-decay Leak Detector at a competitive price. The front control panel allows navigation through the menus using an LCD display. Here such parameters as times, pressures and reject levels can be set. The FCO730 Leak Detector is in a bench case with optional rack mountain attachments.

The front panel has the following features: 16 x 2 character, transflective liquid crystal display with backlighting and 5mm character height; 5 button keypad for instrument set-up; push buttons for test start and stop; fail-, pass and fail+ LED's; quick connect calibration port; optional manual pressure control.

Test Pressure and Leak Rate Ranges

TEST PRESSURE

The pressure ranges are 2.9 PSI; 14.5 PSI; 58 PSI; 116 PSI; 203 PSI and 435 PSI plus equivalent units.

LEAK RATE

The leak rate ranges are 200 Pa 2.00kPa and 20 kPa plus equivalent units including mbar, cc/min etc.

General Specifications - (full technical specification is available)

No. of Tests	Standard single test with optional 8 test simple sequence with advanced input and output options
Accuracy Class	1% of FSD ± 1 Digit
Zero Adjustment	Automatic for leak, semi-automatic for pressure
Resolution	Display 1:2000
Repeatability	< 1% FSD
Temperature Limits	Storage: -20 to 70 degrees C Working: 0 to 40 degrees C
Electrical Connections	9 pin D (RS232), multi-way detachable screw terminal (outputs), multi-way detachable screw terminal (inputs), multi-way detachable screw terminal (power)
Supply Voltage	24VDC ± 10%
Supply Power	<500mA
Timers	0.01s to 999s
Air Supply	Clean, dry air
Supply Pressure	Maximum 232 psi gauge, Minimum 70 psi gauge
Overall Dimensions - Bench Case	11.6" x 9.1" x 5.7"
Pneumatic Connections	Supply 6mm push in, exhaust pilot 4mm push in, test/reference 1/8" BSPF

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