



Gas Pressure Leak Tester

Model GPL-500

- Programmable test profiles
- Simple test set-up and operation
- Fast settling times
- Test results uploaded to a PC
- Compact and lightweight
- $\pm 0.4\%$ of full scale pressure accuracy
- Sound and visual alarms
- 2 x 40 back-lit LCD display
- RS-232 and parallel ports



GENERAL INFORMATION

Interface Associates' GPL-500 Gas Pressure Leak Tester is a compact, bench-top system designed to test bonded or welded catheter assemblies, elastomer tubing, fittings and valve assemblies. The instrument utilizes pure dry nitrogen gas to perform leak testing at pressures up to 500 psi (34 bar). Since the nitrogen gas is used as the pressure medium, there is no residue, water spots or water droplets in the product. This makes the unit especially suitable for 100% testing of finished devices.

By applying a controlled sequence of gas pressures to the component or assembly under test, i.e. balloon catheter, the unit can perform multiple tests such as checking device leakage and with the optional Compliance Test Fixture (figure 3), balloon diameter can be measured.

OPERATION

The GPL-500 allows the user to control the pressure output magnitude and duration. After initial test set-up, programmed tests are assigned a number and can be recalled from memory. When an alarm condition occurs, an alarm sounds and the pressure at alarm is displayed and printed. Following each cycle, statistical data is uploaded to a PC computer using Interface Associates' PT Data Collector. The report indicates cycle number, target and actual pressures, leak rate and balloon diameter (when used with Interface Associates' Compliance Test Fixture P/N 502072). An optional Thermal Printer (figure 4) is available to print a report immediately following the test.

The instrument utilizes a closed loop digital pressure control. A bank of high-pressure solenoid valves is rapidly activated and sequenced by a microprocessor to titrate minor increments of high-pressure gas into and out of a small volume chamber. A solid state pressure transducer featuring 0.1% accuracy and 500 psi range senses the gas pressure in the chamber.

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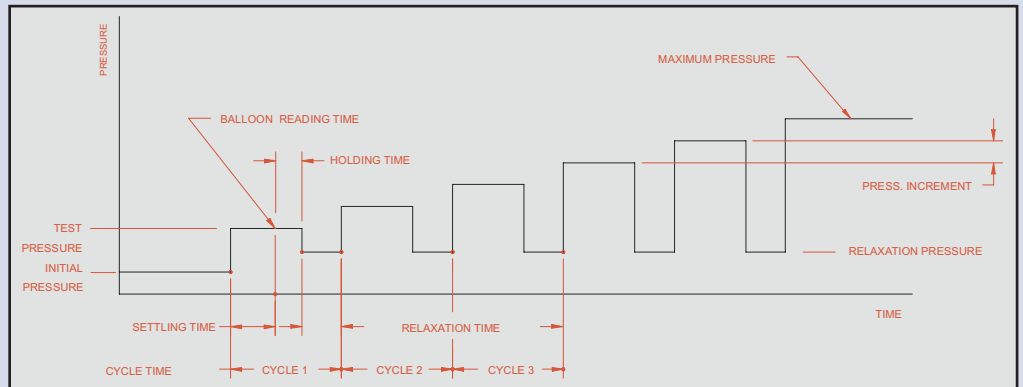


SPECIFICATIONS

Dimensions:	5.38" H x 12.38" W x 16.25" D (13.5 cm x 31.5 cm x 41.3 cm)
Weight:	13.7 lbs. (6.20 Kg)
Electrical Power:	100 / 110 / 220 / 240 VAC 50 - 60 Hz, 30 Watts
Maximum Pressure:	500 PSI (34 bar)
Pressure Accuracy:	± 0.4% of full scale
Parallel Printer Port:	PC Compatible
Printout Information:	Date, Time, Test Type, Test Parameters, and Test results

Any of the following parameters can be set by the operator via soft keys and instructions on the LCD display: **Test Pressure, Relaxation Pressure, Incremental Pressure, Cycle High Pressure, Maximum Pressure, Pressure Drop Alarm, Leak Rate Alarm, Settling Time, Hold Time, Relaxation Time, and Number of Test Cycles.**

This unit can be programmed to perform a variety of tests such as: Fatigue Test (cycle test), Staircase Test, and Single Pressure Test. Shown below is graphical presentation of Incremental Test with Relaxation between steps.



27752 El Lazo Road
Laguna Niguel, CA 92677
Phone: 949.448.7056
Fax: 949.448.7016

www.interfaceusa.com
info@interfaceusa.com