

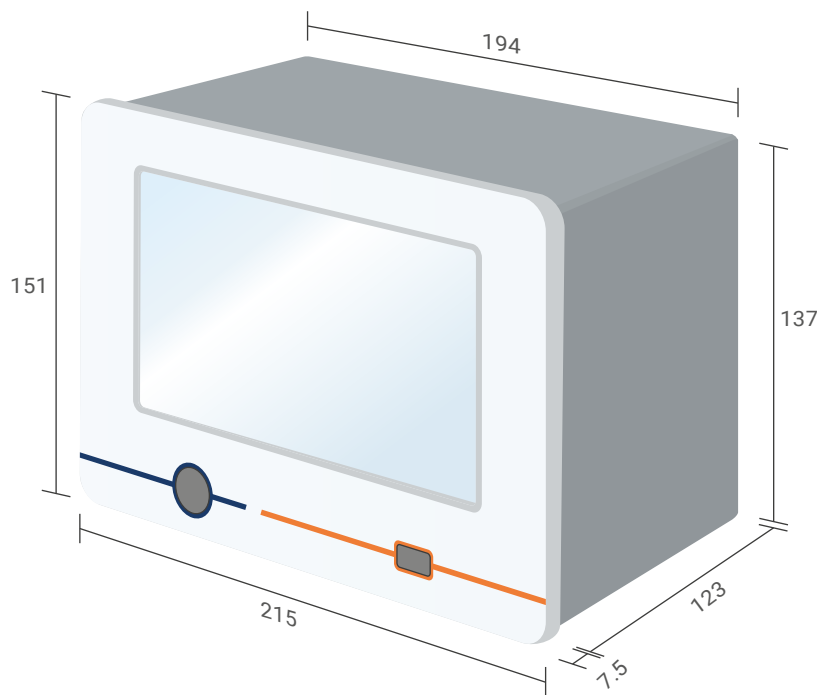


SMART LD

Air leak tester

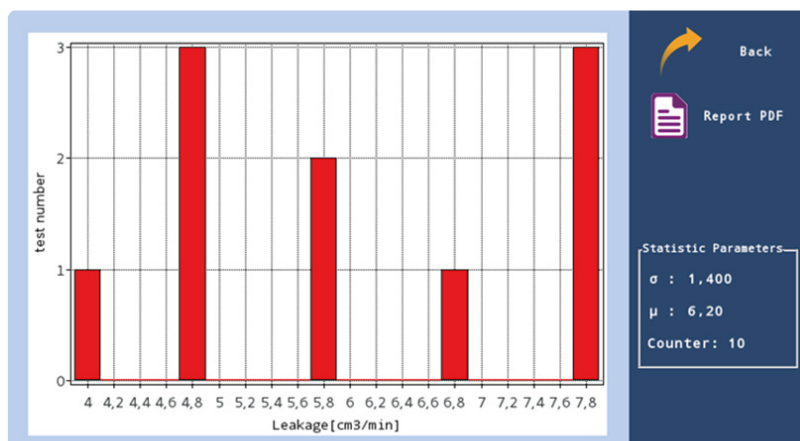
XELIT

SmartLD is a compact leak tester suitable for a variety of applications, both in production and laboratory. It is highly flexible and allows pressure decay leak testing with great accuracy, thanks to a differential pressure transducer.



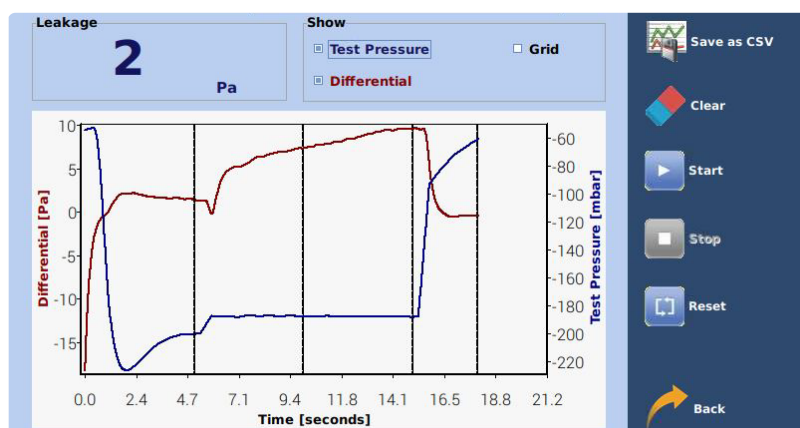
MAIN FEATURES

- **Compact design:** SmartLD has a compact size, so it can be installed near the part under test, increasing reliability
- **Flexibility:** the device has a built-in electronic pressure regulator that allows automatic pressure setting according to test type and based on different test plans
- **Colour touchscreen display:** the touchscreen display shows test results as well as the charts of the absolute and differential pressure measured during test in a dedicated page. Graphics are automatically resized, but it is also possible to zoom an area if necessary
- **Ethernet port:** connecting SmartLD to a PC allows remote programming, monitoring, and data storage
- **Fieldbus:** the instrument is equipped with a Profinet and Profibus fieldbus interface to configure tests, retrieve results and control functionalities
- **Remote desktop:** the device can be remotely accessed using a VNC client
- **Statistics:** built-in statistic software performs statistical analysis on production related parameters
- **Test results display:** the latest 50 results are displayed in a specific table to monitor production



HISTOGRAM

This page shows real-time statistical data related to a product batch, such as mean and standard deviation, and the histogram of leakage. Data can be exported to PDF.



GRAPHICS

This page displays differential and supply pressure signals, which can be useful for analysis purposes. Data can be saved in csv format.

Plan ID	Date	Time	Leakage	Result
TestPlan_01	05/06/18	09.12.32	5 Pa	GOOD
TestPlan_01	05/06/18	09.12.53	5 Pa	GOOD
TestPlan_01	05/06/18	09.13.13	4 Pa	GOOD
TestPlan_01	05/06/18	09.13.33	4 Pa	GOOD
TestPlan_01	05/06/18	09.13.53	3 Pa	GOOD
TestPlan_01	05/06/18	09.14.13	3 Pa	GOOD
TestPlan_01	05/06/18	09.14.33	3 Pa	GOOD
TestPlan_01	05/06/18	09.14.53	3 Pa	GOOD
TestPlan_01	05/06/18	09.15.13	3 Pa	GOOD
TestPlan_01	05/06/18	09.15.34	3 Pa	GOOD

Statistic Parameters

- σ : 0.805
- μ : 3.702
- Counter: 10

Main Page

RESULTS

This page shows the data related to each leak test: test plan number, date and time, leakage, and overall result. There is a separate table for master leak tests.

Test plans:

- TestPlan_01
- TestPlan_02
- TestPlan_03
- TestPlan_04
- TestPlan_05
- TestPlan_06
- TestPlan_07
- TestPlan_08
- TestPlan_09
- TestPlan_10

Import Plans

Export Plans

General Filling Test

Description:

Test 1

Volume [cm3]: 28,0

Differential Gain: $\pm 1.8 \text{ KPa G1}$

Test Pressure [mbar]: -100,000

Test press. tol. [mbar]: 150,000

Leakage Unit: cm3/min

Test Pressure Unit: mbar

Edit Plan

Save Plan

Undo Changes

Copy Plan

Activate

Field bus

Main Page

PARAMETERS

Tests can be configured by editing the test plans. SmartLD features up to 32 test plans. Test parameters can be set also through Fieldbus.

TECHNICAL SPECIFICATIONS

Supply pressure	Max 6 bar, dry and filtered air (25 µm, ISO 8573-1)
Test pressure	0.1 ÷ 5 bar
Test pressure adjustment	Automatic and programmable
Service pressure	5 ÷ 7 bar
Measuring principle	Differential pressure decay (ΔP)
ΔP Range (F.S.)	3600, 6500, 11000, 32000 Pa (range can be selected by test plan)
ΔP Accuracy	0.2 of F.S.
Types of measure	ΔP , $\Delta P/\Delta t$, flow (other types on demand)
Diagnostic functions	Zero, Calibrated Leak with quick connection, Volume Variation, Test Volume Calculation
PC/PLC remote control	Digital I/O (16 input, 16 output), 24 V DC, output max 300 mA
User interface	800x480 7" colour touchscreen display
Languages	Italian, English
Power supply	24 V DC from terminal board, 1A (digital outputs excluded) 230 V with AC/DC adapter
Dimensions (LxHxP)	215x151x130 mm
Weight	4 Kg
Rack mounting	200 x 140 mm

OPTIONS

Test pressure up to 10 bar
Test in vacuum
(-0.8 ÷ -0.1 bar)

ACCESSORIES

Filter regulator group
AC/DC 220 V adapter
Calibrated leak master
Volume variation master
19" rack assembly plate
Desktop case

ADDITIONAL SERVICES

Installation
Training course
Preventive maintenance