



SMART LDHP

High pressure air leak tester

XELIT

Smart LD HP is a compact device for air decay leak testing up to 200 bar. It is very flexible and suitable for a variety of applications, both in production and laboratory.

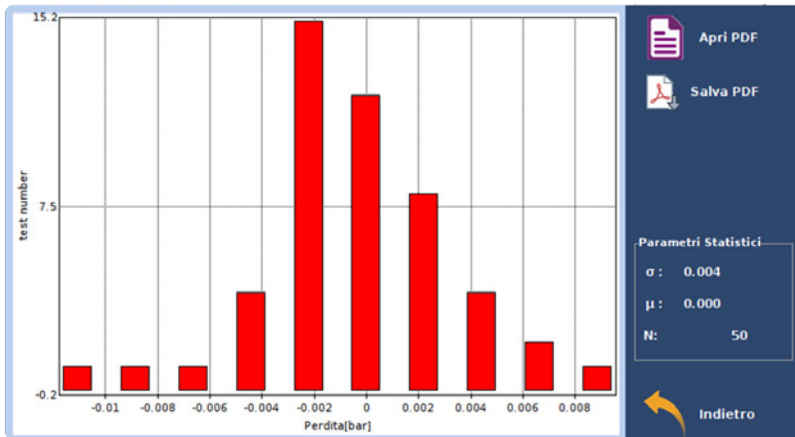
It is equipped with a differential pressure transmitter based on two absolute sensors, which ensures a high level of accuracy. Specific hardware and software solutions provide high resolution, ease of use, and safety.

Smart LD HP can test components designed to withstand high stress, such as hydraulic pumps, brake callipers, injectors, valves, and pipes.

MAIN FEATURES

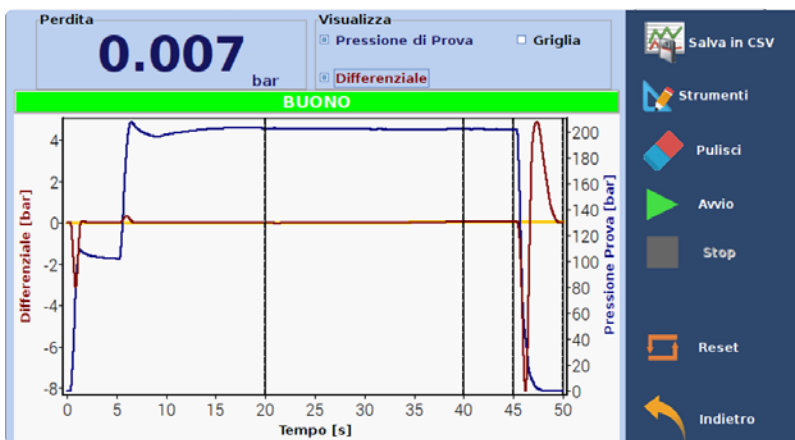


- **Compact design:** the device has a compact size, so it can be easily installed close to the part under test, increasing reliability
- **Flexibility:** a built-in electronic pressure regulator allows automatic pressure setting according to test type and based on different test plans
- **Colour touchscreen 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:** the device can be connected to a PC for remote programming, monitoring, and data storage
- **Fieldbus:** the instrument is equipped with a Profinet interface to set test parameters, 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.

Ricetta	Data	Ora	Perdita	U.M.	Esito
TestPlan_00	6 May 2022	15:24:52	0.007	bar	BUONO
TestPlan_00	6 May 2022	15:24:01	0.003	bar	BUONO
TestPlan_00	6 May 2022	15:23:10	0.003	bar	BUONO
TestPlan_00	6 May 2022	15:22:19	0.004	bar	BUONO
TestPlan_00	6 May 2022	15:21:28	-0.001	bar	BUONO
TestPlan_00	6 May 2022	15:20:37	0.001	bar	BUONO
TestPlan_00	6 May 2022	15:19:46	-0	bar	BUONO
TestPlan_00	6 May 2022	15:18:55	0.007	bar	BUONO
TestPlan_00	6 May 2022	15:18:04	0.002	bar	BUONO
TestPlan_00	6 May 2022	15:17:12	0	bar	BUONO
TestPlan_00	6 May 2022	15:16:21	-0.001	bar	BUONO
TestPlan_00	6 May 2022	15:15:30	-0	bar	BUONO
TestPlan_00	6 May 2022	15:14:39	0.003	bar	BUONO

Salva in CSV
 Pulisci Tutto
 Istogramma
 Parametri Statistici
 σ : 0.004
 μ : 0.000
 N: 50
 Indietro

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

General | Filling | Test

Description: Test 1

Volume [cm3]: 28,0

Differential Gain: ± 5 bar G1

Test Pressure [bar]: 100,000

Test press. tol. [bar]: 5,000

Leakage Unit: cm3/min

Test Pressure Unit: bar

Import Plans | Export Plans

Edit Plan
 Save Plan
 Undo Changes
 Copy Plan
 Activate
 Field bus
 Main Page

PARAMETERS

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

TECHNICAL SPECIFICATIONS

Supply pressure	Max 220 bar, dry and filtered air (25 µm, ISO 8573-1)
Test pressure	20 ÷ 200 bar
Test pressure adjustment	Automatic and programmable
Service pressure	5 ÷ 7 bar
Measuring principle	Differential pressure decay (ΔP)
ΔP measure range	Configurable up to 4 ranges (max 20 bar)
ΔP accuracy	Max 20 mbar
Types of measure	ΔP , $\Delta P/\Delta t$, flow (other types on request)
Diagnostic functions	Master zero test, volume variation test
PLC remote control	<ul style="list-style-type: none">• Digital I/O (16 input, 16 output), 24 V DC, output max 300 mA• Profinet interface
PC remote control	<ul style="list-style-type: none">• Ethernet 10/100 RJ45 port• Wi-Fi b/g/n 2.4 GHz
User interface	800 x 480 px 7" colour touchscreen display
Languages	Italian, English
Power supply	24 V DC from terminal board, 2 A (digital outputs excluded)
Dimensions (WxHxD)	480 x 180 x 450 mm
Weight	20 kg
Rack mounting	Rack 19" 4 units

ACCESSORIES

Filter regulator group
AC/DC 220 V adapter

ADDITIONAL SERVICES

Installation
Training course
Preventive maintenance