



# Modul1000 Helium Leak Detector

IDEAL FOR TESTING PART VOLUMES  
FROM 0.01 UP TO 1000 LITERS

## OPTIMIZE YOUR PRODUCTION HELIUM LEAK TESTING WITH A RELIABLE, INTELLIGENT AND REPEATABLE PLATFORM

The Modul1000 is a plug-and-play helium leak detector for universal integration into industrial leak testing systems (vacuum or sniffer mode). With flexible vacuum architecture, the Modul1000 provides the adaptability to accommodate changes in production specifications.

### RELIABLE FOR MAXIMUM UPTIME

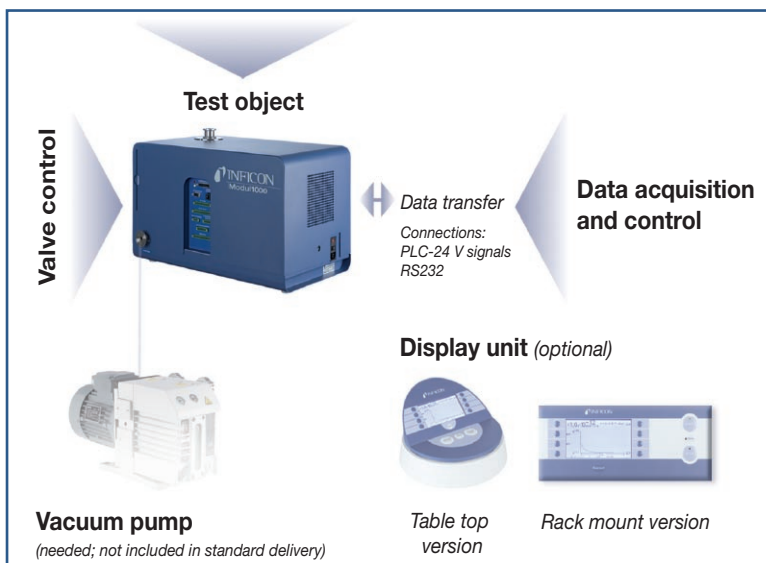
The Modul1000 provides maximum measurement stability and ambient conditions isolation for repeatable measurement over long periods of time in changing conditions. The ion source filament is designed for long life and is supported with a 3-year replacement guarantee to minimize costly unscheduled downtime and maintenance expenses.

### INTELLIGENT DESIGN IMPROVES MEASUREMENT CERTAINTY

The software algorithm I-CAL™ provides accurate measurements at unsurpassed speed in all measurement ranges. This enables the Modul1000 to recognize and communicate the true leak rate faster.

To facilitate unit exchange, user setups are stored in the removable I-Stick for easy, fast parameter transfer.

The Modul1000 offers flexible inputs and status outputs for PLC control. Additionally, control and data acquisition is available via the RS232 communication port. The optional display unit supplies easy operation through an intuitive menu structure and software menus.

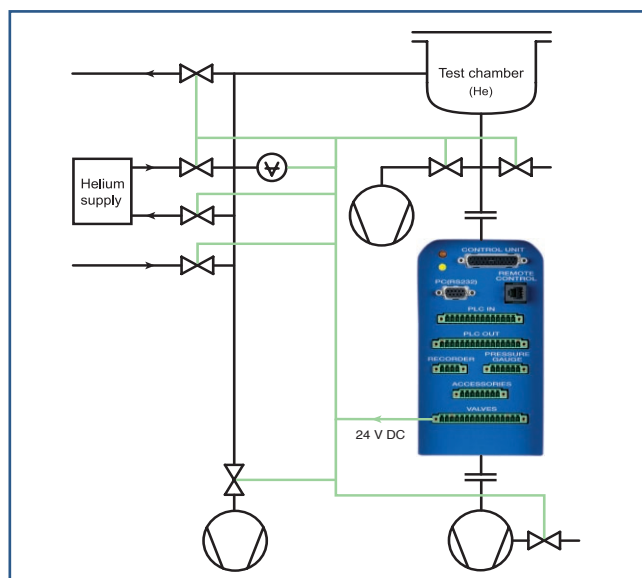


### EASY SETTING OF AUTOMATED TEST PROCEDURES

Implemented software functions allow direct valve control of test systems without the need for an additional PLC.

## FEATURES AT A GLANCE

- Compact design for easy integration in benchtop or rack systems
- Plug & play installation; flexible interfaces
- Wide range detection system: from 0.1 to  $< 5 \times 10^{-12}$  mbar l/s
- Supports any size of foreline pump
- Software algorithm I-CAL provides accurate test results in all measurement ranges
- Wide range power supply
- Integrated test leak
- Flexible control via optional display unit, remote control, PLC or PC
- Self-diagnostics capability
- Low cost of ownership
- Storage of parameter settings for easy data transfer on an integrated, removable I-STICK



Example: Test station with Helium supply.

Implemented "Commander" software menu for direct control of test systems

## SPECIFICATIONS

Minimum detectable leak rate	$< 5 \times 10^{-12}$ mbar l/s
Maximum inlet pressure	0.4 mbar (Modul1000b: 3 mbar)
Operational mode	wide range without crossover (12 decades)
Helium pumping speed at inlet	2.5 l/s
Ion source	2 longlife Iridium filaments, Yttrium-oxide coated
Start-up time	$< 3$ minutes
Inlet port / Fore-vacuum port	DN 25 KF
Power supply	85 - 265 V, 50/60 Hz
Control inputs	8 x PLC compatible (max. 35 V)
Status / Valve control / Trigger outputs	9 / 11 / 3 x relay contacts (max. 60 V AC / 25 V DC / 1 A)
Chart recorder output lin/log	2 x 0-10 V, programmable
Recommended fore-vacuum pump	2.5 - 16 m <sup>3</sup> /h, wet or dry
Dimensions (width x depth x height)	535 x 350 x 339 mm (21 x 13.8 x 13.4 in)
Weight	30 kg (66 lbs)

## ORDERING INFORMATION

	Cat.No.
Modul1000, vacuum version	550-300
Modul1000, vacuum and sniffer version	550-310
Modul1000b, vacuum and sniffer version	550-330
Accessories:	
Display unit for table-top use	551-100
Display unit for rack installation	551-101
Connecting cable for display unit, 5 m	551-102
Set of connecting plugs	551-110
Sniffer line SL200	140 05
Remote control with touch screen:	
RC1000WL, wireless including wireless transmitter with connection cable, charger/mains adapter for integrated battery (85 - 250 V, 50/60 Hz) and 4 m spiral cable	551-015
RC1000C, wired, including 4 m spiral cable	551-010
Extension cable for RC1000C. 8 m (Note: limited up to 3 extensions)	140 22



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Due to our continuing program of product improvements, specifications are subject to change without notice.

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