



# Helium Leak Detector Modul1000

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## ULTRATEST Technology™

**Helium Leak Testing with a reliable, intelligent and repeatable platform, Optimize your production**



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.

## BENEFITS

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### ■ 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

## ■ **Easy setting of automated procedures**

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

## **FEATURES**

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- 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
- Storage of parameter settings for easy data transfer on an integrated, removable I.STICK

## **ORDERING INFORMATION**

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Type	Modul1000
Helium LD Modul1000 vacuum version	550-300A
Modul1000, w/ sniffer option	550-310A
Modul1000b sniffer version	550-330A

## SPECIFICATIONS

Type	Modul1000
Min. detectable leak rate "Vacuum"-Mode	mbar•L/s <5E-12
Min. detectable leak rate "Sniffer"-Mode	mbar•L/s <5E-8
Max. inlet pressure	mbar 0.4, 3 mbar for Modul1000b
Operational Mode	wide range without crossover (12 decades)
Helium pumping speed at inlet	L/s 2.5, 0.1 (Modul1000b)
Ion Source	2 longlife iridium filaments, Ytrium-oxide coated
Start-up time	min <3
Inlet port / fore-vacuum port	'DN 25 KF
Power supply	V 100-240, Hz 50/60
Control inputs	V max. 35 (8xPLC compatible)
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	V 2 x 0 - 10 (programmable)
Recommended fore-vacuum pump	m³/h 2.5 - 16 (wet or dry)
Dimensions (W x D x H)	mm 535 x 350 x 339
Dimensions (W x D x H)	in. 21.1 x 13.8 x 13.4
Weight	kg 30
Weight	lb. 66

## ACCESSORIES

	Modul1000
cable 5 m, fits to 551-100	551-102
Connecting cable ext. display unit, 0.7m	551-103
Display unit, rack mounting	551-101
Display unit, table top	551-100
Extension cable for remote control RC1000, 8 m length	14022
Remote Control RC1000C, wired, with 4m coiled cable	551-010
Remote Control RC1000WL, wireless, incl. wireless transmitter	551-015
SL200, Sniffer Probe for UL1000/5000/Modul1000, 4m length	14005
Test Chamber	551-005
Wireless transmitter for RC1000WL	551-020



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