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 x 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

SPECIFICATIONS

- Minimum detectable leak rate: < 5 x 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 m³/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

<table>
<thead>
<tr>
<th>Cat.No.</th>
<th>Modul1000, vacuum version</th>
<th>550-300</th>
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<tbody>
<tr>
<td></td>
<td>Modul1000, vacuum and sniffer version</td>
<td>550-310</td>
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<tr>
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<td>Modul1000b, vacuum and sniffer version</td>
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<td>Display unit for table-top use</td>
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<td>Display unit for rack installation</td>
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<tr>
<td></td>
<td>Connecting cable for display unit, 5 m</td>
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<tr>
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<td>Set of connecting plugs</td>
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<td>Sniffer line SL200</td>
<td>140 05</td>
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</tbody>
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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 |