

THE NEXT GENERATION

New dimension of leakage tests









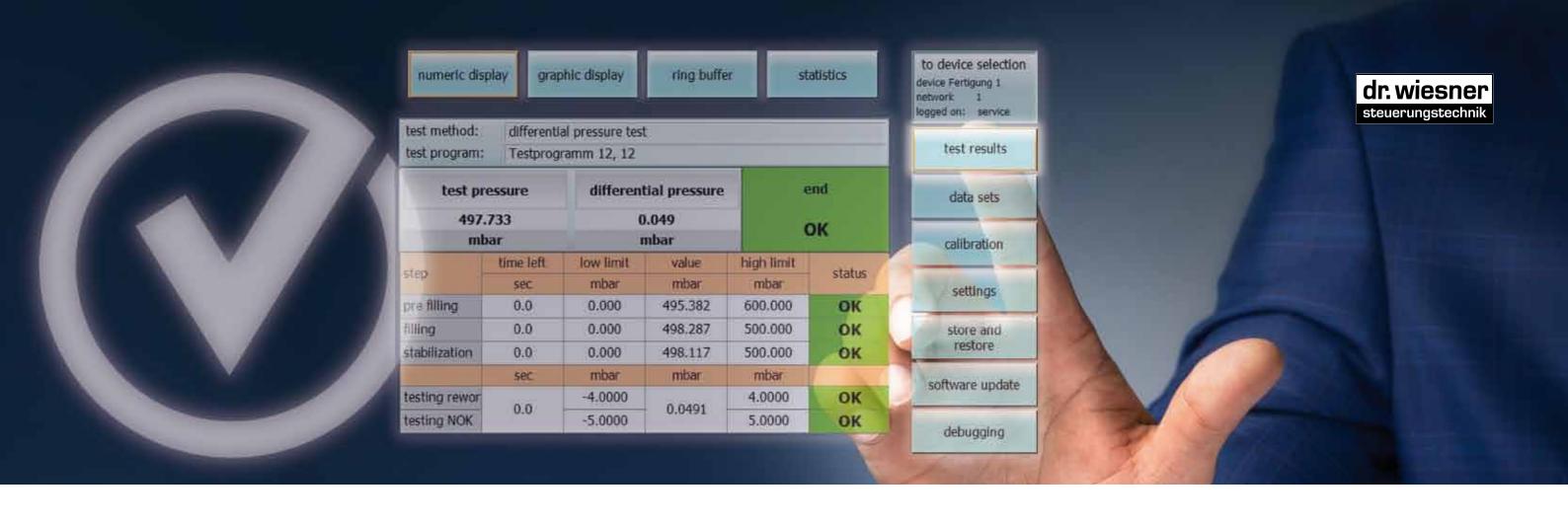


Leak tests

Flow tests

Functional tests

dr. wiesner steuerungstechnik





Thanks to the use of the most modern multi-processor technology with current operating systems, with the INTEGRA NG series, Dr. Wiesner has developed an extremely powerful leak test system with a high level of adaptability to your individual tasks.

An improved measuring technology optimizes your tests with all procedures and test options.

Additionally, the clear representation simplifies the operation and ensures a high level of usability.

The next Generation

From the low-cost version up to the highly automated system, INTEGRA NG is the only system in the market to offer the highest level of flexibility in an identical version with respect to testing with only a small number of modules.

Another unique characteristic is the comprehensive function monitoring for all tests without any loss in time.

INTEGRA NG guarantees maximum process security in all test sequences.

INTEGRA base and smart convincing performance characteristics

The most modern micro-control-ler test circuit board with multiprocessor system: 24 bit A/D converter, digital I/O, Ethernet connection, WLAN capability

Low-energy valve technology with temperature insulation block for the lowest impact on temperature possible



Large nominal width for the shortest test times possible Large nominal width for the

High-precision sensors in connection with a conn connection with 24-bit analogue technology for the greatest measuring precision

Permanent self-diagnostics inte-Permanent sen-ulagriosics integrated into the operation in each phase of the test sequence, thus leading to time-optimized and highly reliable test results.

Quick coupling for measuring Quick coupling to mean technology, optionally switchable test leak for the simplest testing of the entire equipment.







Comfortable operation

- I State of the art user interface with Windows at INTEGRA *smart* or with the INTEGRA *manager / network manager* operating software for PC, laptop and tablets
- I Simple test programme creation with Windows input screen
- I Test process independent from the operating unit
- I Creation of new test programmes, evaluation of the test results storage, evaluation of the integrated statistics, graphical display of the test sequence during production
- I Graphical evaluation of the test sequence with freely scalable pressure curves for detailed development diagnostics of the process
- I Graphical representation of the evaluation of "OK / rework / Not OK" over the course of various periods

Communications environment and network capability

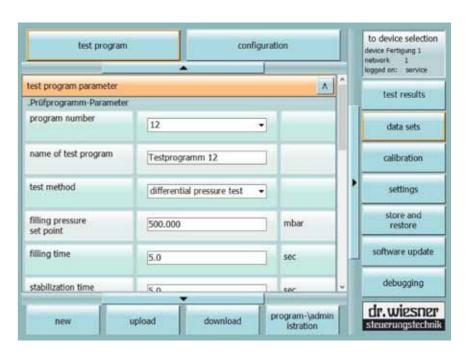


- I Individual connection of each test device (including in the network) to upstream control units via digital I/O interface or industrial bus (optional)
- I Test device networks of up to 32 independent test systems with central evaluation
- I INTEGRA *smart* can be integrated into company networks with cable or WLAN
- I INTEGRA *smart*, capable of monitoring, capable of remote-access via Ethernet cable or WLAN connection and Radmin®



INTEGRA network manager – PC tool software for INTEGRA base

- I Software package for manual operation, for the representation of measuring values and data administration of up to 32 INTEGRA base units in one network
- I Clear software structure and clear display for operation with keyboard, mouse and touch screen
- I Operable with Windows 10, Windows 8 and Windows 7 on laptops, netbooks and tablets
- I Administration of up to 255 different test programmes
- I Display and evaluation of the 4,000 measuring values of the last tests stored in the ring memory
- I Coupling to the INTEGRA *base* via the front-side Ethernet interface for a quick data transfer or via WLAN (option)









Flexibility

INTEGRA NG provides a comfortable application and offers the highest level of flexibility.

- With vacuum and/or overpressure
- I Numerous test programmes and
- I electronic test pressure controller (with INTEGRA base optional)

Different selection procedures

- I Pressure loss during the measuring
- I Pressure loss/time (e.g. Pa/s, mbar/min, adjustable)
- Leak rate adjustable (e.g. ml/min)
- I Differential evaluation for highly reproducible measuring values





Numerous freely adjustable discharge options

- I With or without pre-filling
- I Pressure- or time-controlled pre-filling and filling process
- Additional rework limit values
- I With or without emptying
- I With or without OK parts labelling
- I With or without Not OK parts acknowledgement

Gapless quality verifications

- I Internal storage of the last 4,000 test results
- I Permanent storage under any target address in the company network (only with INTEGRA network manager)



Test leaks are used for simulating leakages when setting or monitoring leak test units They are integrated into the test line instead of a test specimen or in parallel to a tight test specimen. Through a glass capillary which is specifically adjusted to the desired leak rate, a specific flow resistance is prescribed.

The glass capillary is integrated into a metal housing and protected against contamination by means of a filter. Our test leaks are particularly characterised by their easy handling and long lifetime.



Accessories

I Industrial wide-range power supply unit

90...260V; 47...63 Hz; 150W

I Industrial wide-range power supply unit with UPS system and shut-down function

For the controlled deactivation and protection of the hard disk of **INTEGRA** *smart* devices when the supply voltage fails 100... 240 V; 47 .. 63 Hz; 240W

I INTEGRA manager

PC tool software for INTEGRA base units

I INTEGRA network manager

PC tool software for the network connection of INTEGRA *base* devices

I WLAN Access-Point – industrial version

Connection via Ethernet interface, including connection cable

I Network switch

for a maximum of 7 participants, connection via Ethernet interface

I Start/acknowledgement button

2 operating elements in the KM housing including 5m connection line

I 2-fold valve block

for the external switching of 2 test rooms, consisting of distributor panel with 2 pneumatically pilot-controlled valves and electrical control valve with 24 VDC connector.

I Installation kit

For the connection of a device to the pressure supply and/or the test unit, consisting of

- 2 x 3m hose line 4/6mm, including hose cutter
- 2 pieces of brass screw-in connections 4/6mm; G1/8"
- 2 pieces of brass screw-in connections 4/6mm; G1/4"
- 4 pieces of polyamide gaskets (G1/8"; G1/4")

Options

I Electronic pressure control

for INTEGRA base units

I Profibus interface (slave)

I Special test pressure range (vacuum + overpressure)

for vacuum devices, test pressure ranges
-1 ... +1; -1 ... +3; -1 ... +5 or
-1 ... +9 bar

Technical data

I Vacuum generation via venturi nozzle

including automatic connection

I Test leak connection.

automatically connectible via the programme selection

I Additional cooling

with ventilator for extreme environmental conditions

for all INTEGRA NG device versions	
• Test procedure:	Relative pressure procedure, differential pressure procedure or back pressure test
• Test pressure ranges:	-10 bar 01 bar 04 bar 06 bar 010 bar -1+1 bar (optional) -1+3 bar (optional) -1+5 bar (optional) -1+9 bar (optional) Other pressure ranges available upon request
Test pressure control:	electronic (optional with INTEGRA <i>base</i> units) Control accuracy ±1% of the end value
Measured value resolution Relative pressure:Differential pressure:	1/500.000 of the test pressure range 0.01 Pa
Measuring electronics	Multi-processor system with ARM7 and AU1550 under Linux, completely Network-compatible, Intel® atom under Windows 10 (INTEGRA <i>smart</i> only)
• Interfaces:	Digital input/output, sub-D (25-pin); 8 IN/8 OUT 2x Ethernet 2x USB master (INTEGRA <i>smart</i> only) Profibus slave (optional)
Network connection:	24VDC; max.150W (230V power supply unit available as accessory)
Compressed air supply:	Hose connection 4/6 mm
Test leak connection:	Stäubli RBE03 quick coupling in front plate
Desktop metal housing Protection class: Dimensions (WxHxD):	IP40 INTEGRA <i>base</i> 340x185x380mm INTEGRA <i>smart</i> 450x185x380mm

Leak tests · Flow tests · Functional tests

