

LPC 300 & LPC Master

New Flexibility in Leak Measurement Technology



- Up to ten simultaneous measurements
- Windows operating system
- Configurable program sequences
- Versatile software functions
- Straightforward integration in automatic production lines and networks

LPC MODULE SYSTEM

The new LPC Master and LPC 300 module system provides the flexibility of a modular solution in addition to the complete functionality of a leak testing computer. The expandable system is especially suitable for applications with multiple parallel tests, hence providing cost benefits. The LPC Master functions as a single monitoring, control and communications unit with up to ten LPC 300 modules. The versatile interfaces enable simple integration in automatic production lines. The modular concept always provides the most suitable measurement technology for each specific test room. From the smallest volume with the differential pressure module up to huge tanks thanks to the newly developed flow module.

APPLICATION EXAMPLES

- **Automotive industry**
Engine, cylinder head, valves, filters, transmission housings, steering mechanisms
- **Electrical appliances**
Washing machines, coffee makers
- **Food industry**
Bottles, packaging
- **Chemical and medical technology**
Pipettes, plastic bags, aerosol containers, dialysis accessories
- **Machine building, plant manufacturing and apparatus construction**
Gas mains, water pipelines and tanks

EQUIPMENT

LPC 300 Module:

- Measurement technology: Absolute pressure, differential pressure and flow
- Automatic pressure regulator
- Leak test connection
- Volume determination
- LED status display

LPC Master:

- Control of up to 10 independent LPC 300 modules
- Key switches
- Configurable measuring programs
- Programmable measuring procedures (measuring program sequences)
- 128 freely parameterizable measuring programs
- Password protection
- Autotest function
- Management of measuring programs and results via USB stick
- Data archive for several million measurements
- Graphical display of measurements
- Statistical values of measurements
- Graphical display of statistical values
- Large high-resolution touch screen display
- Menu and setting functions
- Graphical display of the process with real time display
- Comprehensive selection of measuring units
- Display text in several languages
- Operating instructions in the device

INTERFACES

LPC 300:

- Connection to LPC Master via RS 232

LPC Master:

- Ethernet connection, external test parameter management and control of the device, network, test data documentation, data transfer
- Serial RS 232, external test parameter management and control of the device
- 4 USB interfaces, 2x on the front and 2x at the back, test data documentation, data transfer and external test parameter management, configurable as printer or RS 232 (option)
- VGA interface for standard commercial, external monitor

OPTIONS

LPC 300:

- Temperature compensation with automatic determination of the correction table
- Measurement of physical variables
- Volume determination (reference volume)

LPC Master:

- Profibus interface
- Customer-specific test sequences
- Customer-specific special equipment

ACCESSORIES

- Test leak
- Leak simulator
- Vacuum pump
- Filter kit

LPC 300 MEASUREMENT RANGES

	Absolute Pressure	Differential Pressure	Flow
Test pressure range (depending on device type)	-0.99 to 10 (16) bar rel	-0.99 to 4 (10) bar rel	-0.99 to 4 (10) bar rel
Test pressure accuracy	1 % of final val.	1 % of final val.	1 % of final val.
Measuring range	same as test pressure range	-175 mbar + 175 mbar -1 bar + 1 bar	-25 ml/min + 25 ml/min
Measuring accuracy	1 % of meas. val.	1 % of meas. val.	0.5 % of meas. val.
Display resolution	1 Pa	0.1 Pa	>0.01 ml/min depending on volume
Measuring resolution	1 ppm of measuring range + noise	1 ppm of measuring range + noise	0.01 ml/min
Noise (typical)	0.5 Pa (1 bar) – 2 Pa (10 bar)	0.1 Pa (175 mbar)	-----

TECHNICAL DATA

	LPC 300	LPC Master
Housing (WxHxD)	185x155x326 mm	365x200x385 mm
Weight	5 kg	10 kg
Mains connection	24 VDC 55 W	90-264 VAC 90 VA
Air supply	Air/Nitrogen Dried ISO 8573-1 Cl.3	---
Operating temperature	10-45 °C	10-45 °C

CONTACT

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