

LPC 850



HIGHLIGHTS

- ✓ Microprocessor controlled
- ✓ Easy to connect to automatic production lines
- ✓ Control of small systems
- ✓ Configurable measurement technology
- ✓ Programmable
- ✓ Customizable to meet specific needs

DESCRIPTION

- Microprocessor controlled leak tester
- High-resolution LED display 640 x 480 Px (VGA)
- Graphic representation of process and statistical values
- 120 freely programmable measuring programs
- Automatic serial tests
- Automatic offset correction
- Data archive of 4 million measurement results
- Statistics of results
- Automatic pressure regulator
- Test leak port
- Configurable measurement methods
- Key switch
- Password protection
- Adaptable to customer requirements

TECHNICAL SPECIFICATIONS

Housing (BxHxT)	365 x 160 x 385 mm
Weight	13 kg
Rated Voltage Range	115/230 V AC
Rated Power	75 W
Protection	IP30
Air Supply	Air, nitrogen Dried ISO 8573-1 Class 3 Compressed air dew point -20 °C Filtered with min. 5 µm Up to 40 mg/m ³ of oil
Operating Temperature Range	10 - 45 °C
Max. Humidity	80 % rH not condensing
Power Supply (24 V optional)	M12 Connection 24 V max. 3 A

APPLICATION EXAMPLES

Automotive	Powertrain	Consumer Goods	Energy
HVAC/R	Medical	Military	Other Transportation

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DISPLAY

- Menu- and setting functions
- Measurement units: Pa, mbar, bar, ml/min, l/min, l/sec
- Graphical and alphanumeric representation of the results
- Multilingual display text

INTERFACES

- Serial RS232, data transmission, test parameter management and control of the device
- USB A interface (front), test data documentation and test parameters
- USB B data transmission, test parameter management and control of the device
- Profibus interface
- Digital I/O, eight inputs and outputs freely programmable for test stand control and PLC connection, expandable to 40 inputs and outputs
- Two pneumatic control outputs (freely programmable)

OPTIONS

- Temperature compensation
- Customized test procedures and customer-specific equipment
- Measurement of physical parameters
- Volume determination (reference volume)
- Customer-specific results logs, e.g. label printing
- Ethernet
- LIO 32 input/output extension
- ProfiNET

ACCESSORIES

- LPC-Modbus
- External test sensors via LPC-Modbus
- Test leak and leak simulator
- Vacuum pump
- Filter Kit

MEASURING RANGES

	Gauge Pressure (A)	Dual (AP)	Diff. Pressure (DI)	Mass Flow (DU)
Test Pressure Range (limited by design) ¹⁾	-0.97 up to 50 bar	-0.97 up to 50 bar	-0.97 up to 50 bar	-0.97 up to 4 bar
Test Pressure Control Accuracy	1.5 % FS	1.5 % FS	1.5 % FS	1.5 % FS
Measuring Range	-0.97 up to 50 bar	-0.97 up to 50 bar (special application)	±50 mbar up to ±2 bar (special application)	-50 up to +50 ml/min
Measuring Accuracy (±X.X full scale + noise)	up to 1 bar: ±1 % + 0.5 Pa up to 4 bar: ±1 % + 2 Pa up to 20 bar: ±1 % + 5 Pa up to 25 bar: ±1 % + 20 Pa	up to 1 bar: ±1 % + 0.5 Pa up to 4 bar: ±1 % + 2 Pa up to 20 bar: ±1 % + 5 Pa up to 25 bar: ±1 % + 20 Pa	up to 4 bar: ±2% + 0.1 Pa up to 16 bar: ±2 % FS + 1 Pa	2 % + > 0.01 ml/min (volume dependent)
Display Resolution (Digit)	up to 1 bar: 0.1 Pa up to 10 bar: 1 Pa 16 to 50 bar: 10 Pa	up to 1 bar: 0.1 Pa up to 10 bar: 1 Pa 16 to 50 bar: 10 Pa	up to 1 bar: 0.1 Pa up to 10 bar: 1 Pa	> 0.01 ml/min (volume dependent)

¹⁾ Reference to 1013.25 mbar, abs