



# Leak Test Panel Series 500

## Compact and modular

**The universal panel**  
The Series 500 highlights at a glance



### Basic features

- Single channel measuring system
- Pressure decay/rise method
- Relative or differential pressure
- Mass flow rate/  
volume flow measurement
- Electronic proportional  
pressure regulator
- 32 test programmes



### Data communication

- Binary I/O interface
- Optional Profibus, Profinet  
and Ethernet IP
- Storage of the last  
100,000 measurements
- Statistical evaluation of test results
- CAN bus for adding external sensors,  
pressure regulators and valves



### Operation

- Easy operation using an intuitive  
menu structure
- 7" TFT touchscreen display
- 2 USB connections on the front side

Part of the JW Froehlich Series 500, this universal panel with its modern user interface can be used as a stand-alone device or as part of a system in machine lines and manufacturing plants.

Thanks to the underlying satellite technology and the decentralised master/slave principle behind the panels, measuring processes can also be visualized on a standard tablet or HMI.

# Display and device connections



## Technical data

	MPS500	MPS550	MFL500	MFL560
Measuring method	Relative pressure	Differential pressure	Mass flow rate	
Test pressure range	-0.8 to 6 bar	-0.8 to 20 bar	-0.8 to 7 bar	0.7 to 7 bar
Leak rate range <small>(depending on the selected range, other ranges available on request)</small>	± 999.99 cm <sup>3</sup> /min		± 500 cm <sup>3</sup> /min	15 cm <sup>3</sup> /min. to 100 L/min.
Leak rate measurement resolution	0.01 cm <sup>3</sup> /min			0.1 cm <sup>3</sup> /min. to 0.1 L/min.
Display	7" TFT colour monitor with touchscreen			
Measurement storage	up to 100,000 measurements			
Interfaces	Binary I/O, 2 x USB, and optionally: Profibus, Profinet, Ethernet IP, Barcode			
Power supply	24 VDC, 2.5 A			
Panel dimensions (W x H x D)	approx. 295 x 150 x 390 mm			
Weight	approx. 8 kg			
Colour	RAL 7021 black grey			



### Options include

- Language settings
- Temperature compensation
- External control unit
- Q-DAS link
- High pressure up to 20 bar (MPS 550)
- Ethernet interface
- Profibus/Profinet/Ethernet IP
- External measure circuit



### Special functions

- Volume-dependent leak test
- Auto-mastering function
- Auto-parameter module
- Back pressure test
- DAE (membrane test)



### Accessories

- Leak calibrator LK 100/800
- Calibrated leaks
- Vacuum pump
- Barcode scanner incl. software



### Service package

- Factory calibration
- Mapping
- Training
- Parameterisation

**JWFROEHLICH**

Test and Assembly  
Solutions for Powertrain

Leinfelden + Plochingen Germany  
Laindon Essex England  
Detroit Michigan USA  
Shanghai + Dalian China

[www.jwf.com](http://www.jwf.com)