Industries

JW Froehlich leak tightness tests are a key component of quality management in countless companies, and are used to guarantee and document the functionality of many products from a diverse range of industries. With the JW Froehlich leak test panels in Series 100–500 and the JW Froehlich leak calibrators, customers can choose from a range of flexible and versatile devices tailored to their needs.

- Automotive
- Aerospace
- Electrical engineering
- Defence technology
- Household appliances
- Fittings
- Casting
- Valve technology
- Plastics technology
- Medical technology

JW Froehlich Leak Test Panels

A solution for all your needs

Serie 100
Compact and economical
Serie 200
Visual and communicative

Serie 400
Multifunctional and graphical
Serie 500
Compact and modular

LK 100/LK 800
Lightweight and convenient
Serie 300
Versatile and modular

JW FROEHLICH

Test and Assembly
Solutions for Powertrain

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

www.jwf.com

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JW Froehlich Leak Test Panels

A solution for all your needs

From small-scale workshop applications as a stand-alone device, to optimised integration in plant equipment for production lines and manufacturing facilities: Whatever the application, JW Froehlich has the ideal device for performing leak tests. The devices are impressively easy to use and ensure hassle-free data evaluation using cutting edge measurement technology.

Series 100
The Basic Panel

Series 200
The Professional Panel

Measuring data	MPS100	MPS150	MPS200	MPS250	MFL200	MFL260
Testing method	Relative pressure	Differential pressure	Relative pressure	Differential pressure	Mass flow	
Measure channels	1		1			
Test programs	32		32 (max. 256 with Profibus/Profinet)			
Test pressure range	-0.8 to 6 bar	-0.8 to 7 bar	-0.8 to 6 bar	-0.8 to 20 bar	-0.8 to 7 bar	0.7 to 7 bar
Leak rate range (according to selected range, special ranges on request)	± 999.99 cm^3/min		± 999.99 cm^3/min		± 500 cm^3/min	15 cm^3/min. to 100 L/min.
Leak rate resolution	0.01 cm^3/min		0.01 cm^3/min			0.1 cm^3/min. to 0.1 L/min.
Control	**MPS100**	**MPS150**	**MPS200**	**MPS250**	**MFL200**	**MFL260**
Display	4 x 40 character LCD display		6.5“ colour touch screen			
Test result storage	up to 500 tests		up to 10,000 tests			
Graphic display	–		TFT colour monitor			
Operating system	Linux Embedded		Windows Embedded Standard 7			
Data format	TXT		XLS, XML, PDF			
Languages	DE, EN		DE, EN (others on request)			
Communication	**MPS100**	**MPS150**	**MPS200**	**MPS250**	**MFL200**	**MFL260**
Interfaces	Binary I/O, RS232, USB		Binary I/O, RS232, USB, and optionally: e.g Profibus, Profinet			
QDAS link	–		○			
AutoParameterModule	–		○			
AutoMasteringFunction	–		○			
Barcode scanner + Software	–		○			
Ethernet	–		○			
TeamViewer remote diagnostics	–		○			
CALT software via PC	–		●			
Equipment	**MPS100**	**MPS150**	**MPS200**	**MPS250**	**MFL200**	**MFL260**
Power supply unit	○		○			
Leak calibrator LK 100/LK 800	○		○			
Maintenance unit	○		○			
Temperature compensation	○		○			
Technical specifications	**MPS100**	**MPS150**	**MPS200**	**MPS250**	**MFL200**	**MFL260**
Dimensions	approx. 160 x 290 x 390 mm		approx. 540 x 220 x 380 mm			
Power supply	24 VDC, 2.5 A		24 VDC, 2.5 A			
Weight	approx. 10 kg		approx. 17 kg			

● = by default ○ = optional – = not selectable

Series 300
The Satellite Panel

Series 400
The Multifunctional Panel

MPS300	MPS350	MFL300	MFL360	MPS400	MPS450	MFL400	MFL460
Relative pressure	Differential pressure	Mass flow		Relative pressure	Differential pressure	Mass flow	
1 (opt. via external PC + CALT up to 8 panels)				from 1 to 8 channels in the cabinet			
32 (max. 256 with Profibus/Profinet)				32 (max. 256 with Profibus/Profinet)			
-0.8 to 6 bar	-0.8 to 20 bar	-0.8 to 7 bar	0.7 to 7 bar	-0.8 to 6 bar	-0.8 to 20 bar	-0.8 to 7 bar	0.7 to 7 bar
± 999.99 cm³/min		± 500 cm³/min	15 cm³/min. to 100 L/min.	± 999.99 cm³/min		± 500 cm³/min	15 cm³/min. to 100 L/min.
0.01 cm³/min			0.1 cm³/min. to 0.1 L/min.	0.01 cm³/min			0.1 cm³/min. to 0.1 L/min.

MPS300	MPS350	MFL300	MFL360	MPS400	MPS450	MFL400	MFL460
4 x 40 character LCD display (opt. w/ ext. PC + CALT: 15“ display)				15“ colour touch screen			
up to 500 tests (opt. w/ ext. PC + CALT: up to 10,000 tests)				up to 100,000 tests			
– (opt. w/ ext. PC + CALT)				TFT colour monitor			
Linux Embedded (opt. w/ ext. PC + CALT: Windows Embedded Standard 7)				Windows Embedded Standard 7			
TXT (opt. w/ ext. PC + CALT: XLS-XML-PDF)				XLS, XML, PDF			
DE, EN (others on request)				DE, EN (others on request)			

MPS300	MPS350	MFL300	MFL360	MPS400	MPS450	MFL400	MFL460
Binary I/O, RS232, USB, and optionally: e.g Profibus, Profinet				Profibus, RS232, USB, and optionally: e.g Binary I/O, Profinet			
○ (CALT)				○			
○ (CALT)				○			
○ (CALT)				○			
○ (CALT)				○			
●				○			
○ (CALT)				○			
○ (CALT)				●			

MPS300	MPS350	MFL300	MFL360	MPS400	MPS450	MFL400	MFL460
○				○			
○				○			
○				○			
○				○			

MPS300	MPS350	MFL300	MFL360	MPS400	MPS450	MFL400	MFL460
approx. 540 x 195 x 405 mm				approx. 575 x 415/500/635/770 x 405 mm (1-4 channels)			
24 VDC, 2.5 A				24 VDC, 2.5-5 A			
approx. 15 kg				approx. 45-120 kg (1-4 channels)			

Serie 500
The Universal Panel

MPS500	MPS550	MFL500	MFL560
Relative pressure	Differential pressure	Mass flow	
1			
32 (max. 256 with Profibus/Profinet)			
-0.8 to 6 bar	-0.8 to 20 bar	-0.8 to 6 bar	0.6 to 6 bar
± 999,99 cm³/min		± 500 cm³/min	15 cm³/min. to 100 L/min.
0.01 cm³/min			0.1 cm³/min. to 0.1 L/min.

MPS500	MPS550	MFL500	MFL560
7" TFT colour monitor with touchscreen			
up to 100,000 measurements			
TFT colour monitor			
Windows Embedded Compact			
CSV, XML, PDF			
DE, EN (others on request)			

MPS500	MPS550	MFL500	MFL560
Binary I/O, 2 x USB, and optionally: Profibus, Profinet, Ethernet IP, Barcode			
○			
○			
○			
○			
○			
○			
–			

MPS500	MPS550	MFL500	MFL560
○			
○			
○			
○			

MPS500	MPS550	MFL500	MFL560
approx. 295 × 150 × 390 mm			
24 VDC, 2.5 A			
approx. 8 kg			

Leak Calibrator LK100/800
Lightweight and Convenient

	LK100	LK800
Testing method	Air mass flow rate measurement	
Measuring range	-100 to 100 Ncm³/min.	-800 to 800 Ncm³/min.
Leak rate resolution	0.01 Ncm³/min. (up to 20 Ncm³/min.) 0.1 Ncm³/min. (up to 100 Ncm³/min.)	1 Ncm³/min. (up to 800 Ncm³/min.)
Device dimensions (W × H × D)	approx. 160 × 87 × 45 mm	
Case dimensions (W × H × D)	approx. 380 × 330 × 90 mm	
Device/case weight	approx. 550 g/2.25 kg	
Power supply	Batteries or USB cable