



ZEDmod

The latest development of MMS is the solution to complex leak detection and function test scenarios. The modular construction together with the ZEDsatellite allows parallel testing of up to 8 devices. ZEDmod offers the highest possible technical standards and completely new software.

Available modules:

- RD Gauge pressure
(Option: 2 channels)
- RD/GP Gauge pressure with bell jar
- RD/DF Gauge pressure with flow rate
- DD Differential pressure
- SD Impact Pressure
- MF Mass flow

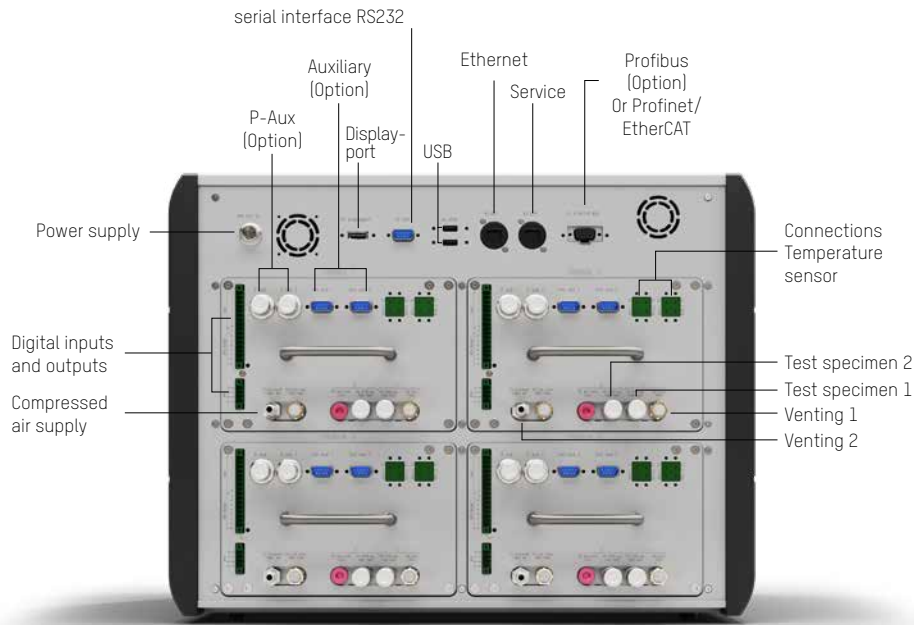
[See technical data for available pressure ranges]

Application examples:

- **Automotive:** Complete motors, cylinder heads, gearboxes, heat exchangers, electronic control systems, batteries, cables, valves, fuel cells, pumps, ...
- **Medical technology:** Catheters, dialysis filters/boxes, flushing/hose systems, secretion bottles, syringes, external lung machines, ...
- **Packaging / Cosmetics:** Dosing pumps, plastic bottles, cartridges, ...
- **Household appliances:** Water distributors/pumps, gas valves/armatures, stoves, compressors, ...
- **General Industry:** Cylinders, safety/check valves, couplings, grippers, ball valves, gaskets, ...

Accessories (optional):

- Test leak
- Leak calibrator
- Barcode scanner
- External venting valve
- Temperature compensation
- Keyboard



Product characteristics:

Control unit: PC-based control system with efficient multi-core CPU and Windows Embedded 7

Slots for up to 4 measuring modules

17" TFT color display with touchscreen

Graphic display of the measurement course on each channel

Data storage > 1,000,000 test results

> 1,000 test programs with unrestricted parameter settings

Self-testing function

Statistic function

Automatic test pressure monitoring

Electronic pressure regulator

Leak simulation for connecting a test leak or leak calibrator

Sequential / parallel testing

Automatic determination of volume with a reference leak

Control of ZEDsatellite

Control options:

PROFIBUS / PROFINET*	Barcode control system (RS232)
Ethernet (Modbus)	RS232 (Modbus)
Configurable digital inputs / outputs (module)*	

Interfaces:

VGA: for connecting an external monitor

USB and Ethernet interface: e.g. for data export to CSV, XML

RS232 interface: e.g. for the leak calibrator

Dimensions (H x W x D): 17.32 x 20.87 x 17.32 in / 440 x 530 x 440 mm

Weight: 66.1 – 88.2 lb / 30 – 40 kg approx.

Power supply: 24 VDC (+10 / -5%) 6.7 A

Test medium: Compressed air
(no oil or water in compliance with ISO 8573-1 Class 3)

*optional

Technical data:

	Gauge pressure	Differential pressure	Impact Pressure	Mass flow	Flow
Test pressure range	vacuum ... 232 psi / 16 bar		0 ... 6 bar	vacuum ... 116 psi / 6 bar	
Test pressure accuracy	1 % FS [Full Scale]	1 % FS	1 % FS	1 % FS	
Measuring range	as test pressure range	-1.45 ... 1.45 psi -100 ... 100 mbar	10,000 ... 450,000 ccm/min ml/min	-50 ... 50 or -250 ... 250 ccm/min ml/min	up to 250,000 ccm/min ml/min
Measurement resolution			0.5 ppm FS		
Smallest measurable change in pressure (type-specific)	0.5 Pa (14.50 psi / 1 bar) ... 4 Pa (232 psi / 16 bar)	0.1 Pa	0.1 Pa (50 mbar) ... 1.5 Pa (6 bar)		
Measurement accuracy (Leak rate)	depending on test set-up		depending on test set-up	typically 5% of measured value no smaller than 0.5% FS	
Repeatability	depending on test set-up		depending on test set-up	0.5% of measured value no smaller than 0.05% FS (depending on test set-up)	

Further details, test pressures, control system options, customer-specific records of overarching data capture and evaluation systems available on request