

ZED satellite

The decentralized measurement and test module ZEDsatellite enables measurement directly on the test object and thus increases measurement accuracy and reliability. The data from the available measurement methods can be conveniently read out centrally via the ZEDbox or any other unit of the ZED family with the exception of the ZEDeco+. Distances to the evaluation unit of up to 50 m are possible.

TYPICAL APPLICATIONS

- + Automotive: Engines, cylinder heads, transmission, diaphragms, hybrid drives, heat exchangers, control electronics, batteries, pipes, valves, fuel cells, pumps, etc.
- + Medical technology: Catheters, dialysis filters / boxes, flushing systems, tubing systems, secretion containers, syringes, respirator devices, etc.
- + Packaging / cosmetics: Dosing pumps, plastic bottles, cartridges, etc.
- + Domestic appliances: Water diverters, water pumps, gas valves / fittings, stoves, compressors, etc.
- + General industry: Cylinders, safety valves, check valves, couplings, grippers, ball valves, seals, etc.

MEASUREMENT METHODS

RD	Relative pressure
	(optional: 2-channel)
RD / GP	Relative pressure with bell testing
RD / iDF	Relative pressure with indirect flow
RD / DF	Relative pressure with flow
DD	Differential pressure
DD / GP	Differential pressure with bell test
SD	Dynamic pressure
MF	Mass flow

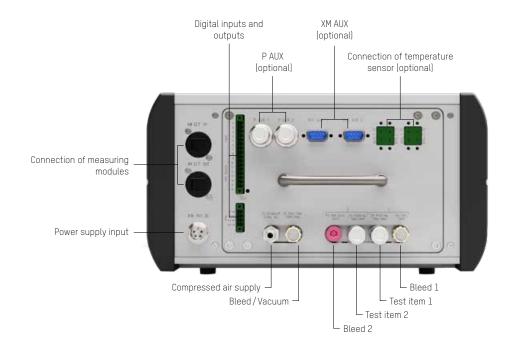
(for available pressure ranges, see technical data)

ZELTWANGER

Accessories (optional):

- + Test leak
- + Leak calibrator





Control panel:

Expansion and combination options						
7FDbox	1 external	— max. 2 channels				
ZEDDUX	+1 external	max. 2 channets				
ZEDbase *	1 internal	—— max. 2 channels				
	+1 external					
ZEDmod	internal	—— max. 8 channels				
	external	IIIdx. O CIIdIIIIEIS				

Interfaces:

Connection to other measuring modules

Other interfaces are part of the ZEDcore measurement module

Interface to the control panel

Dimensions (H x W x D): 170 x 310 x 430 mm

Weight: 7.5 kg without a power supply

Power supply: 230 VAC, internal 24 VDC (+10 / -5%) 5A

Test medium ZEDcore: Compressed air (oil and anhydrous according to ISO 8573-1 class 3)

Technical specifications:	ZEDcore Relative pressure	ZEDcore Differential pressure	ZEDcore Dynamic pressure	ZEDcore Mass flow	ZEDcore Flow
Test pressure range (several gradations possible)	Negative pressure* -0.9 bar - Overpressure 20 bar**		0 6 bar**	Negative pressure* -0.9 bar - Overpressure 16 bar**	
Test pressure accuracy	1.0% v.E.	1.0% v.E.	1.0% v. E.	1.0%	v. E.
Measuring range	like test pressure range	-100 100 mbar	10,000 450,000 ccm/min ml/min	-50 50 or -250 250ccm/min ml/min	up to 250,000 ccm/ min ml/min
Measurement resolution	0.5 ppm v. E.				
Smallest measurable pressurechange (type-specific)	0.5Pa (1 bar) 4Pa (20 bar)	0.1 Pa	0.1 Pa (50 mbar) 1.5 Pa (6 bar)		
Measurement accuracy (leak rate)	depending on the test setup		depending on the test setup	Typically 5 % v. M. not less than 0.5 % v. E.	
Repeatability	depending on the test setup		depending on the test setup	< 0.5% v.M. not less than 0.05% v.E. (depending on the test setup)	

Further accuracies, test pressures, control options, customer-specific protocols for higher-level data acquisition and evaluation systems on request. * Depending on the source of negative pressure ** Recommended working pressure range: 10-95% FS