



ZEDcore

The heart of the ZED family – the ZEDcore measuring module – can be integrated into all ZELTWANGER measuring devices (except ZEDeco) and is easy to install with plug-and-play. Due to the modular design, measuring circuits in a device can be flexibly and quickly swapped out, or the measuring modules can be used in different devices.

Application examples:

- **Automotive:** engines, cylinder heads, transmissions, diaphragms, additional main devices, power adapters, hybrid drives, heat exchangers, control electronics, batteries, lines, valves, fuel cells, pumps, ...
- **Medical devices:** catheters, dialysis filters / boxes, irrigation / tube systems, septic fluid jars, syringes, external lungs, ...
- **Packaging / cosmetics:** dosing pumps, plastic bottles, cartridges, ...
- **Household appliances:** water switches, water pumps, gas valves / fittings, stoves, compressors, ...
- **General industry:** cylinders, safety / check valves, couplings, grippers, ball valves, seals, throttle pins, ...

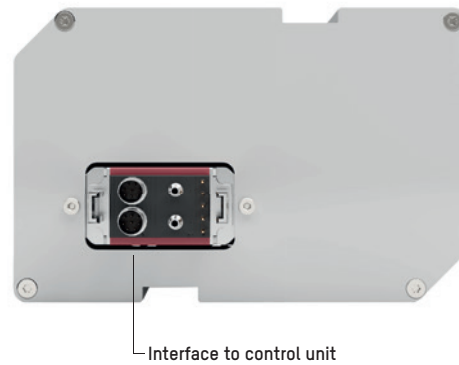
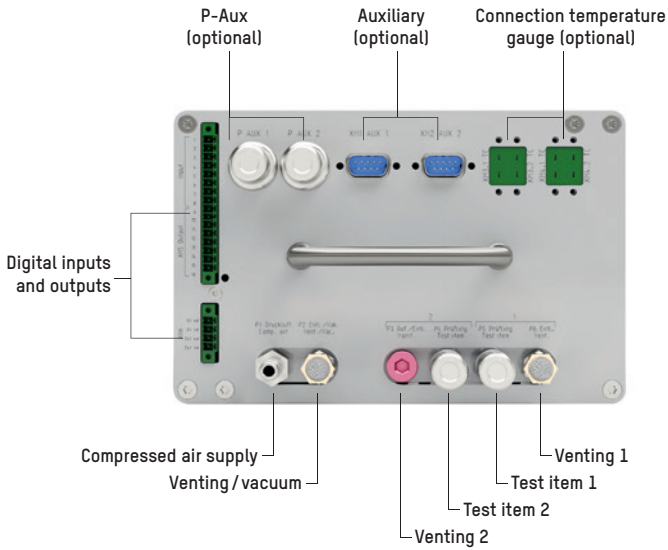
Measurement methods:

- RD** Gauge pressure
(2 channels optional)
- RD / GP** Gauge pressure with bell testing
- RD / DF** Gauge pressure with flow
- DD** Differential pressure
- SD** Stagnation Pressure
- MF** Mass flow

(Please refer to the technical data for possible pressure ranges)

Accessories (optional):

- External venting valve
- Temperature compensation



Control unit:

Expansion and combination options	
ZEDbox	1 external + 1 external max. 2 channels
ZEDbase+	1 internal + 1 external max. 2 channels
ZEDmod	internal external max. 8 channels
ZEDflex	internal external max. 8 channels

Interfaces:

Auxiliary
Temperature gauge
Interface to control unit
Dimensions (HxWxD): 5.47x9.25x12.40 in / 139x235x315 mm
Weight: approx. 8 – 10 kg
Power supply: 24 VDC (+10 / -5 %) 5A
Test medium: Compressed air (oil and water free per ISO 8573-1, Class 3)

chnical data:	Gauge pressure	Differential pressure	Stagnation 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	
Measurement range	same 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
Measuring resolution	0.5 ppm from end value				
Smallest measurable pressure change (by type)	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)		
Measuring accuracy (leak rate)	depends on test setup		depends on test setup	Typically 5 % of measurement value no less than 0.5 % from end value	
Repeatability	depends on test setup		depends on test setup	0.5 % of measurement value no less than 0.05 % from end value (depends on test setup)	

Further information on accuracies, test pressures, control options, customer-specific protocols for higher-level data acquisition and evaluation systems on request

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