

ZEDbox

The ZEDbox is a universal control and evaluation unit. It forms part of a leak test system with which the operation and evaluation of all measurement results can be carried out. The highlight here, however, is that in combination with a ZEDsatellite, the ZEDbox can be used spatially separately from the measuring module and technically contains the same functions as a ZEDbase+, except for the leak simulation connection in the front of the device. This arrangement covers all applications in which the separate use of measuring module and control makes sense.

TYPICAL APPLICATIONS

- + **Automotive:** Complete engines, cylinder heads, transmission, 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 / check valves, couplings, grippers, ball valves, seals, etc.

Accessories (optional):

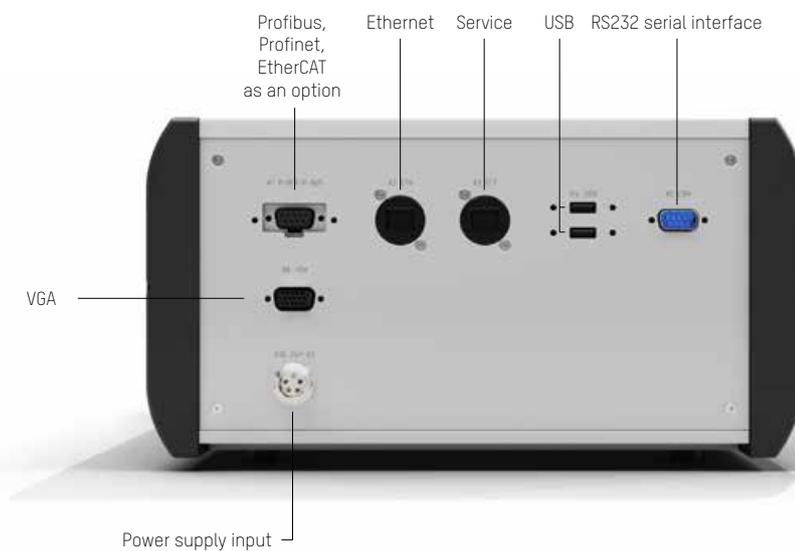
- + Test leak
- + Leak calibrator
- + Barcode/data matrix scanner
- + Keyboard

MEASUREMENT METHODS

In combination with the ZEDcore, the following measurement methods can be performed:

- 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





Product features:

- PC-based control with powerful multi-core CPU and Windows 10 IoT Enterprise
- 7" TFT color display with capacitive touchscreen
- Graphical representation of the measurement process
- Data storage > 1,000,000 test results
- > 1,000 freely configurable test programs
- Self-test function
- Statistics function
- Automatic test pressure monitoring
- Electronic pressure regulator
- Sequential tests / parallel test
- Automatic volume determination with a test leak
- Control of ZEDsatellite

Control options:

- PROFIBUS/PROFINET/ETHERCAT*
- Ethernet (Modbus, WebAPI, OPC-UA) Modbus, barcode control
- 8 freely configurable inputs and outputs. Optionally expandable

Interfaces:

- VGA port:** 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:** (HxWxD): 170 x 398 x 410 mm
- Weight:** 7.5 kg without a power supply
- Power supply:** 230 VAC, internal 24 VDC (+10% / -5%) 5 A
- Test medium ZEDcore:** Compressed air (oil and anhydrous according to ISO 8573-1 class 3)
- Media/ambient temperature:** 50 ... 104°F / 10 ... 40°C
- Rated power:** 25 ... 75 W

*optional