

ZEDflex

The ZEDflex leak test solution solves customer-specific requirements by means of flexible, positionable measuring circuits. The highly powerful ZED software is used for this purpose. The universal ZEDcontrol evaluation unit enables secure data exchange and archiving of measurement results. The flexible measuring circuits use the compact ZEDsatellite*.

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 valves, check valves, couplings, grippers, ball valves, seals, etc.

Accessories (optional):

- + Keyboard drawer, including keyboard
- + Industrial PC (Beckhoff or Siemens)
- + Screen (rack-mountable 17")
- + Barcode scanner
- + Frame for test setup
- + Vacuum pump: Test pressure-dependent option, if not available on site
- + Reference volume, e.g. for measuring methods for mass flow
- + Adapter

AVAILABLE MEASURING CIRCUITS*

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 ZEDsatellite data sheet)



Configuration options

Evaluation unit ZEDcontrol



Characteristics

- + Control and evaluation unit with powerful multi-core CPU and Windows Embedded 10 IoT Enterprise
- + Data storage > 1,000,000 test results
- + > 1,000 freely configurable test programs
- + Automatic test pressure monitoring

Space for options such as vacuum pump or pressure booster

Enclosure

Options

- + Control cabinet
- + Industrial rack
- + Customer-specific (standard industrial dimensions)
- + Frame for test setup**



Measuring circuit ZEDsatellite

- + Up to max. 6 measuring circuits
- + Find more information about the measuring circuits on the ZEDsatellite data sheet
- + All common measuring methods can be implemented
- + Dimensions (HxWxD): 139x235x315 mm
- + Weight: approx. 8 - 10 kg
- + Self-test function
- + The satellites can be integrated into the control cabinet as well as arranged decentrally



Screen

Options

- + Standalone
- + Integrated in the rack
- + Customer-specific

Characteristics

- + Graphical representation of the measurement process per channel
- + Statistics function
- + TFT color display with touchscreen



** Example of application of mass flow method with reference volume and pressure booster unit.

Control options:

PROFIBUS/PROFINET/ETHERCAT	Barcode control (RS232)
Ethernet (Modbus, WebAPI, OPC-UA)	RS232 (Modbus)
8 freely configurable inputs and outputs. Optionally expandable	

Interfaces:

Display 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
Power supply: 24 V DC (+10/ -5%) 6.7A

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