

## Description

**ZEVODAT-flash™** is an electronic device for the indication, data storage, control, and transfer of measured values such as mass, volume, temperature, etc.

Control functions for the different components of the metering system such as pump, valves or sampler are integrated in this device.

The printing interface allows for the additional option of printing out all relevant data significant for the supplier.



## Features

- Graphics display for the simultaneous indication of e.g. quantity, temperature, identification number, flow rate
- Graphical representation of the temperatures during the cleaning process
- Standard supplier identification via GPS
- 3,000 reception processes up to 100 tours (expandable on request)
- 256MB SD card data memory (expandable)
- All outputs are short circuit-proof
- Prompting mode via menu and display keys
- User-friendly by large and coloured buttons
- Transfer of additional supplier information (e.g. supplier-specific messages)
- Language change in the basic version from German to English
- Long-term storage for data backup over 3 months

## Options

- Data transfer (cable, GSM, GPRS, Bluetooth®)
- Printer type EPSON TM88 or type DI-PRINT™, others on request
- Sampler for individual samples and a tour sample
- Barcode scanner for sample identification
- Barcode scanner for supplier identification
- Built-in modem for data transfer via GSM or GPRS
- Additional languages (on request)
- Possible hardware extensions (Profibus, Bluetooth®) for different applications
- Adaptation of the standard program to customer needs

The data capture unit, type **ZEVODAT-flash™ Standard**, is provided with a standard program with 5 different operating states:

1. Initial state with the menu items:
  - Start of a tour
  - Data transfer
  - Start of the cleaning process
  - Handling of service functions (parameters, I/O test, etc.)
2. Activation of the tour:
  - Data request or input of driver, tour, and sampling information
  - Data storage

3. Quantity measurement and recording with the supplier:
  - Data query or input of the supplier and sampling details
  - Indication of the relevant measuring data (quantity, supplier, temperature, status, etc.)
  - Control of the metering system (pump, sampler)
  - Data logging and printing a voucher
4. Finishing the tour:
  - Data query or inputs (e.g. unloading station)
  - Data storage
  - Printing a tour voucher
  - Data transfer
5. CIP function:
  - Data query and data logging for the cleaning process (number of the cleaning bay, temperature)

## System structure

The complete electronic unit is included in a field housing made of cast aluminium. The unit is operated from the robust keyboard by some special coloured keys or menu-driven by 3 soft keys. All electrical connections are equipped with plug connectors, thus offering a good maintainability.

## Basic version

- Multi-channel pulse inputs for the quantity
- Control output for individual samples
- Control output for tour samples
- Input for temperature
- Input for level probe
- GPS identification
- Input for tachometer
- Output for printer
- Output for the control of a pump

## Technical data

|                                |   |                             |  |
|--------------------------------|---|-----------------------------|--|
| <b>Power supply:</b>           | 9...32 V DC    0.9...4 A  | <b>Housing:</b>             | Cast aluminium<br>Protection class: IP65   |
| <b>Power consumption:</b>      | 46 W max.   | <b>Housing dimensions:</b>  | 330 x 200 x 120 mm (WxHxD)<br>Weight: 4 kg |
| <b>Digital inputs/outputs:</b> | 12 x combined inputs/outputs<br>9...30V / 70 mA max.                                | <b>BUS interface:</b>       | GEA Diessel CS3-Bus protocol               |
| <b>Measured value display:</b> | Graphics display 240 x 128,<br>115 x 65 mm, blue, with<br>white background lighting | <b>Storage capacity:</b>    | 256 MB SD memory card                      |
| <b>Keyboard:</b>               | Numerical, special keys and<br>soft keys (prompted menu)                            | <b>Scanner input:</b>       | RS 232                                     |
| <b>Level probe:</b>            | Resistance bridge 0...10 KΩ   | <b>Tachometer input:</b>    | Pulses: 5...30 V, 500 Hz max.              |
| <b>Counting input:</b>         | 1...3 channels,<br>12 V DC / 1 kHz  | <b>Printer output:</b>      | RS232, CS3-Bus, TTY (optional)             |
| <b>Temperature input:</b>      | 4-wire Pt100  | <b>Ambient temperature:</b> | -10°C...+55°C                              |