



ZEVODAT-flash Pump Computer



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

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