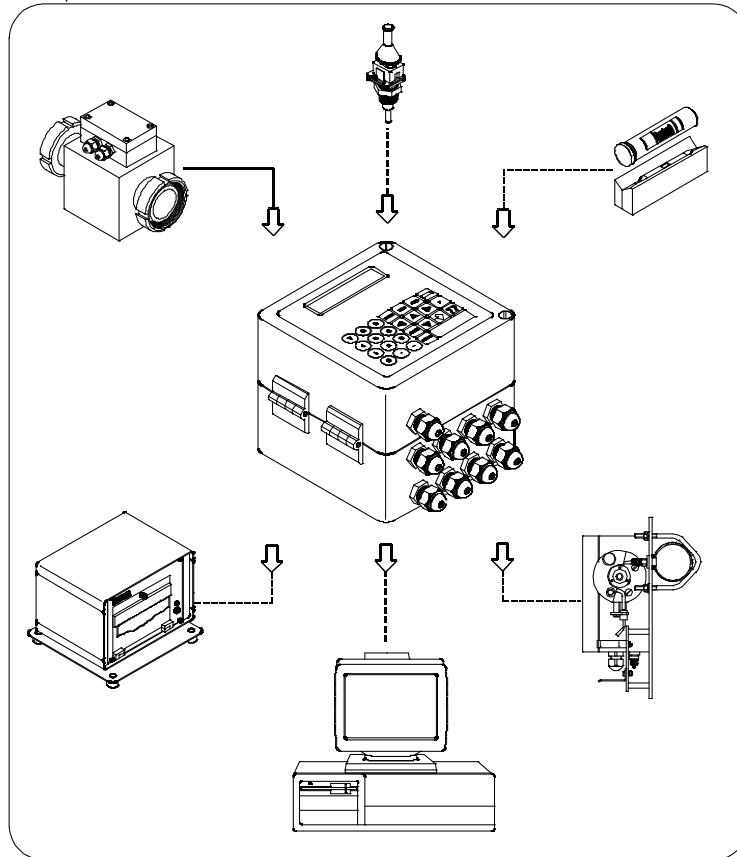# ZEVODAT-C1 Flow Computer

Description:

The data capture unit IZM-ZDC1™ (ZEVODAT-COMPACT 1) is an extension of the electromagnetic flow meter type IZM-S™ for the acquisition, storage and display of data which e.g. arise during the milk collection. Monitoring and controlling tasks can be executed simultaneously for system components.

Features:

- Complete data acquisition on milk collecting tanker or to be used as stationary reception unit

- All components (printer i. e. DI-PRINT™, MOBIPRINT-D™) are ¬IP 65, and thus can be installed in the wet area
  - sturdy aluminium housing

- Front plate with foil-protected keyboard and 2x 20-digit LC display

- Electromagnetic transmitter in the most varied nominal widths

- Compliance with electromagnetic compatibility rules 89/336/EWG

- Suitable for truck use acc. to DIN40839 and OIML Doc. 11/A1.4.X..

The data capture unit IZM-ZDC1™ is equipped with a standard program which offers three operating¬ states:

INITIAL STATE -> TOUR -> INTAKE

INITIAL STATE	TOUR	INTAKE
Display of date and time. A tour data print-out as well as a data transfer is possible in this state. The A**TOUR**@ state is reached by the system when entering (automatically or manually): - Operator/Driver number - Tour number	During the whole tour the system remains in this state and changes to the A**INTAKE**@ state by the following entries: - Supplier number and expected intake quantity if required The operator terminates the @**TOUR**@ by pressing the [STOP] key. The following values are collected: - Total quantity of the measured single quantities - Date/time	The measuring process starts, if flow is existing. The following values are collected: - Supplier number - Measured quantity - Date/time - Temperature (Average value) The measurement is terminated by the [STOP] key, the input **IN2** (end of measurement) or if flow is no longer recognized over a parameterizable time (standard time 10 sec.).

Construction

The electronical parts are mounted in a cast aluminium housing with integrated operating terminal. Besides the power pack, the housing incorporates the converter of the electro¬magnetic flow meter as well as the JB3 junction board including the respective I/O´s for connecting the required peripheral equipment.

Basic Design

- Highly accurate/calibrated quantity measure¬¬ment

- Acquisition of intake and tour data (e.g. times, quantities, customer no., company no. and driver number, etc.)

- Data transfer with GEA Diessel CS3-Bus pro¬tocol

Option

- Sampler control

- Data print-out via printer i.e. DI-PRINT™, MOBIPRINT-D¬™

- Automatic acquisition of identification numbers (Bar¬code 2/5 interleaved) or (Scanner Barcode 39, depending on USER Program)

- Measurement of temperature

Technical Data

Power supply:	12...30 V DC 0,8...0,3 A	**Housing:**	Cast aluminium Protection class: IP65
Power consumption:	max. 15 VA / 8 Watt	**Housing dimensions:**	157mm x 157mm x 138mm (L x W x H)
Digital outputs:	4 x Transistor outputs Load max. 30V/max. 250 mA	**Serial interface:**	RS485 57600 baud **GEA Diessel** CS3-BUS protocol
Display of measured value:	2 x 20-digit - alphanumerical, illuminated LC Display (5mm digit size) with keyboard	**Digital inputs:**	2 x Optocoupler; activation: 10...30 V DC
Temperature input:	4-wire Pt100	**Ambient-temperature:**	-25 °C...+55 °C