



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
<p>Display of date and time. A tour data print-out as well as a data transfer is possible in this state. The ATOURL state is reached by the system when entering (automatically or manually):</p> <ul style="list-style-type: none"> - Operator/Driver number - Tour number 	<p>During the whole tour the system remains in this state and changes to the AINTAKE state by the following entries:</p> <ul style="list-style-type: none"> - Supplier number and expected intake quantity if required <p>The operator terminates the TOURL by pressing the  key. The following values are collected:</p> <ul style="list-style-type: none"> - Total quantity of the measured single quantities - Date/time 	<p>The measuring process starts, if flow is existing.</p> <p>The following values are collected:</p> <ul style="list-style-type: none"> - Supplier number - Measured quantity - Date/time - Temperature (Average value) <p>The measurement is terminated by the  key, the input IN2 (end of measurement) or if flow is no longer recognized over a parameterizable time (standard time 10 sec.).</p>

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 measurement
- 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 protocol

Option

- Sampler control
- Data print-out via printer i.e. DI-PRINT™, MOBIPRINT-D™
- Automatic acquisition of identification numbers (Barcode 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