

Description

The **GEA Diessel** process metering system **DI-LIQUIZ™** is a combination of electromagnetic flow meter type **IZM-S™** and the concentration meter type **DI-LIQUI™**. Thus, the arising quantities are measured in dependency of the concentration and are allocated to the respective product phases as water, intermediate phases and main product what ensures a complete batch logging.

The average concentration is determined additionally for each batch.

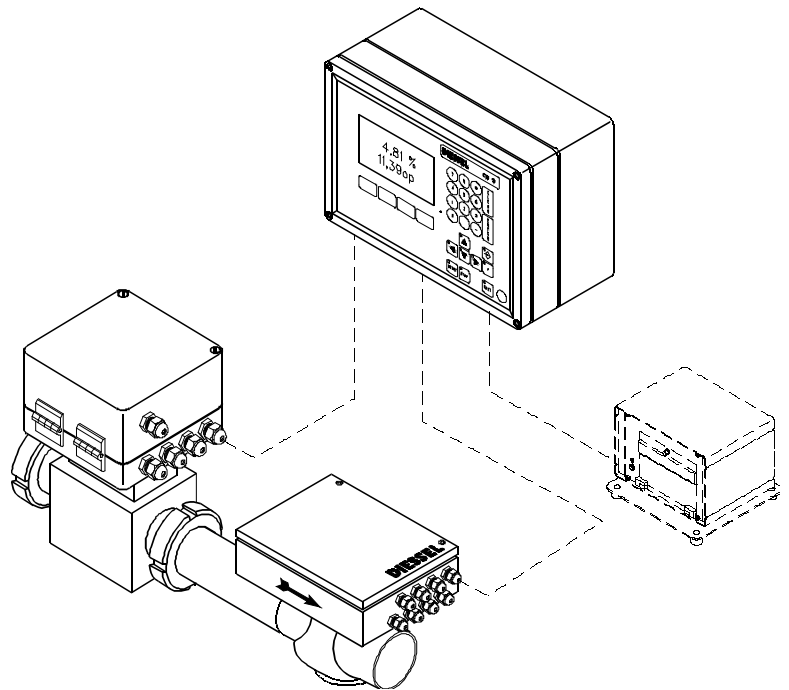
In beer the allocation can be done as per original gravity or alcohol. For non-alcoholic drinks it is common to measure in Brix.

A risk in quality due to bacteriological impurities in the final beverage is excluded by the use of IN-LINE metering devices.

Alarms or other control functions can be triggered via certain limit value parameters. In order to reach a precise limitation of quantity and concentration. A delayed change-over of the valves dependent on the installation can be done via a pushing-out control.

Continuously, all measured data are well legible on a 16 x 40 display, possible errors or product-dependent information are displayed in clear text. The operator language can be altered.

A printer type **BP110** that automatically prints the batch logging is available as an option.



Features

- Direct "IN-LINE" measurement without bypass lines, as a result **bacteriologically safe**
- Suitable for SIP/CIP without any problems
- Measurement of original gravity and alcohol in beer or of Brix content in non-alcoholic drinks is possible
- Quantity and concentration data are current and refer to batches. These are constantly available
- Up to 3 metering lines can be run by 1 operating unit
- 3 freely programmable limit values for each metering system line
- Integrated pushing-out control for up to 3 product phases
- Possible connection to an operational data logging via serial interface (option)
- Up to 94 different calibrating curves can be stored for each metering line
- Suitable for STOP & GO operation as well

Technical Data

Transmitter type IZM™ and DI-LIQUI™

Assembly:	delivered as single parts or pre-mounted on a frame (option)
Nominal diameter:	DN50 ... DN150
Flow range:	from 1.000 ... 10.000 l/h up to 20.000 l/h ... 200.000 l/h
Typical tolerances:	flowrate ± 0.25 % original gravity in beer: ± 0.05 °Plato alcohol in beer: ± 0.07 vol% sugar in alc. free beverages: ± 0.10 °Brix
Connection:	IZM™ → standard: FG flange DI-LIQUI™ → mounted: FG flange
Material:	all product-contacting parts made of material no.: 1.4571
Admissible pressure:	10 bar max.
Temperature:	Product temperature: 120 °C max. Cleaning: 130 °C max. for 30 min. the product temperature and the representative temperature range must be indicated for the concentration measurement
Protection class:	IP65

DI-LIQUIZ™ Operating unit

Mounting:	Field housing or incorporated in a control panel
Dimensions:	330 x 230 x 155 (L x W x H) Control panel on demand
Weight:	10 kg Control panel on demand
Protection class:	IP65 Control panel on demand
Supply voltage:	230 V Alternating voltage
Power consumption:	30 VA only for operating unit and 1 metering system line
Ambient temperature:	0 ... 40 °C
Display:	16 x 40 Characters, illuminated, with large-scale screen
Keyboard:	27 Keys (numeric plus special keys)
Outputs:	analog standard: 4 x 0/4 ... 20 mA for concentrations or temperature 1 x 0/4 ... 20 mA for each metering system line for the IZM-S™ flow digital standard: 3 Limit values (for each metering system line) 1 Error output for concentration as alarm or valve control
Contact load:	50 V / 500 mA
Inputs:	analog standard: (for each metering system line) 3 x 0/4 ... 20 mA CO ₂ -compensation from external meter digital standard: 4 Product sort selection (32 product sorts max.) 3 START Batch 3 STOP Batch 3 Error acknowledgement
Activation:	24 V / 30 mA
Interface:	standard BUS interface for BP110 printer (Option) TTY on demand RS232 on demand RS485 on demand

BP110 Printer

Mounting:	Field housing or incorporated in the control panel
Dimensions:	330 x 230 x 155 (L x W x H)
Weight:	Field housing: 5 kg
Protection class:	Field housing: 5 kg
Supply voltage:	230 V Alternating voltage
Power consumption:	10 VA
Ambient temperature:	0 ... 40 °C

*) comparable conditions

GEA Diessel reserves the right for alterations subject to the technical progress without notification.