

Ultrasampler-Controller EASI, Type 6970-31

- Standalone control unit for Bartec sampling systems
- Display of intake dates
- Temperature detection
- Robust die-cast aluminium housing for rough operation on a tanker
- Easily expandable to the complete measuring system



Description

Control of two sampler motors for the bottling of representative, carryover safe milk samples, including the default quantities and optionally the processed measurement values of the flow level meter.

Control of a pumping system for milk intake.

Function

Processing of default data during the round of sampling.

Acquisition and processing of the output signals of the flow level meter.

Acquisition and processing of the output signals of a milk sensor with temperature measurement.

Application

Stationary mono, dual or quad sample collection system.

Mono, dual or quad sample collection system directly on the milk lorry.

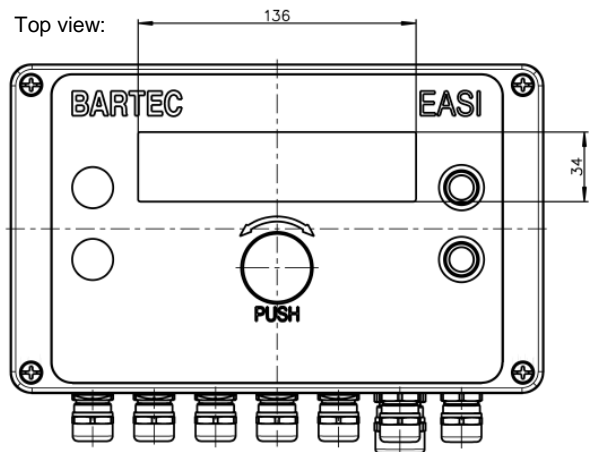
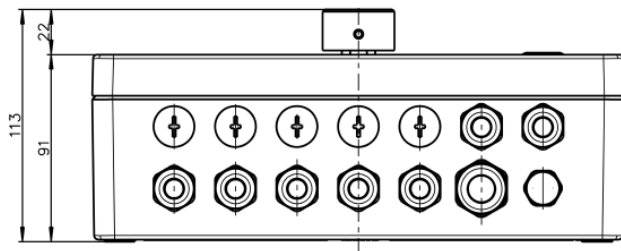
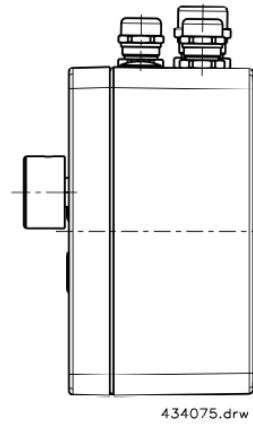
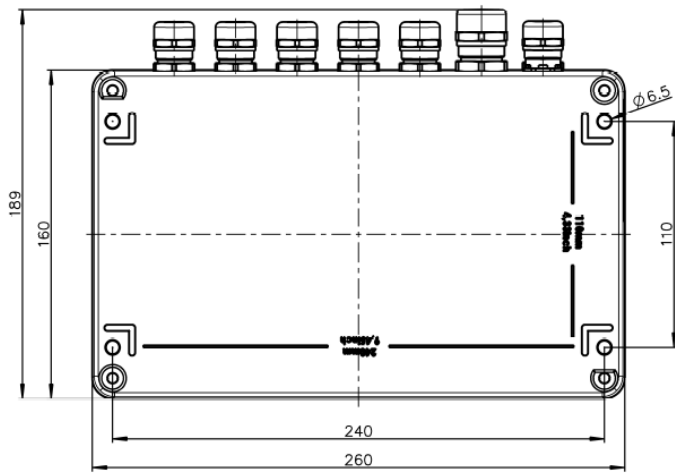
Features

- **OLED-display**
- **Microprocessor controlled sampling**
- **Real time clock**
- **Acquisition and processing of the measured values of the flow level meter and the temperature sensor.**
- **Data exchange via fieldbus (P-NET).**
- **Direct control of two sampler motors.**
- **Intuitive operation**

Technical data

Device-specific data	
Nominal operating temperature	23±2°C
Display	OLED-display (256x64)
Real time clock	Accuracy ±3 ppm (-15°C ... +60 °C)
Electrical data	
Voltage rating electronic	DC 24 V ± 5%, fine-wire fuse 3 A
Operating voltage I/O and stepper motors	On-board power supply DC min. 23 V max. 30 V, fine-wire fuse 6.3 A
Power consumption electronic	300 mA no load
Power consumption I/O and stepper motors	100 mA no stepper motors, no load
Required power supply	DC 24 V ± 5%, > 200 W
Interface 1	
System bus interface	RS485 P-Net 76800 Bit/sec
Interface 2 and 3	
RS 232	RxD, TxD, CTS, RTS, 9.6 Kbaud, galvanic separation
Output for auxiliary energy	DC 24 V, max. 150 mA, fuse protection 300 mA
Outputs	
Number of channels	2
Circuit	High side solid state (MOSFET)
Voltage	DC 24 V on-board power supply
Current	Max. 1 A per output
R _{ON}	Approx. 200 mΩ
Digital inputs	
Number	2, galvanic isolation with optocoupler (3750 Vrms)
Input impedance	Approx. 3 kΩ
Voltage	DC 24 V on-board power supply
Circuit	Bipolar, solid state
Milk sensor input	
Digital	galvanic isolation with optocoupler (3750 Vrms)
Pt100	Pt100 4-conductor, -20 ... +100 °C, 0.05% resolution
Output for auxiliary energy	DC 24 V, max. 100 mA, fuse protection 400 mA
Flow level meter input	
Voltage input (FLM fill level)	0 - 2.4 V = 100 - 0 %, 0.5 % resolution
Power input (FLM flow)	4 - 20 mA = 0 - 100%, 0.5% resolution
Output for auxiliary energy	DC 24 V, max. 250 mA, fuse protection 400 mA
Sampler controller tank/sample	
Power consumption	2 x 2.7 A
Maximum step frequency	10 kHz
Number of sampler motors	2
Ambient conditions	
Operating temperature	- 20 ... + 50 °C
Storage temperature	- 20 ... + 60 °C
Protective type	IP 65 as per DIN 40040
Mechanical data	
Dimensions	See scale drawing
Material	Die cast aluminium, blue coated
Weight	28 N (2.8 kg)

Dimensions



Ordering details

Designation	Order no.
Ultrasampler-Controller EASI, type 6970-31	434075