Контроллеры RA33

Техническая информация

По вопросам продаж и поддержки обращайтесь:

RA33
Batch Controller

Recording and controlling of batch operations

Benefits:

- Fixed and automatic after-run correction for constant, extremely accurate results
- Higher quality through fast and exact dosing
- Optional volume correction for mineral oils as per ASTM D1250-04
- Detailed logging of protocols (preset counter, volume counter, batch name and number) as well as error messages and changes of operating parameters
- Standard models are suitable for connecting and supplying all common flow transmitters, temperature sensors and density sensors
- Remote control option to start and abort batch runs
- Daily, monthly and annual statistics on the batch run size and quantity

Specs at a glance

- **Input** 1 x analogue (I) / pulse (for flow) 1 x RTD (for temperature) 1 x analogue (I) (for density) Loop power supply 24V DC (+/-16%)
- **Output** 1 x analogue (I) / pulse (active) 2 x open collector
- **Display** 160 x 80 Dot-Matrix LCD with white backlit Colour change in case of alarm event Active display area 70 x 34 mm
- **Calculations** Volume calculation

Field of application: The Batch Controller RA33 is designed to record flow and control output signals for valves and pumps to ensure the exact dosing of predefined batch quantities. The measured volume can be corrected with the temperature/density compensation function. The filling process can be optimized with an automatic or fixed after-run correction. Mineral oils can be corrected according to the ASTM D1250-04 standard.

Features and specifications

Energy & Application Manager

Measuring principle

Application manager

Measuring principle

Batch controller

Function

Filling & dosing

Calculations

Volume calculation

Number of applications

1

Calculation standards

ASTM D1250-04

Communication

RS232
USB
Ethernet
Modbus TCP
Modbus RTU

Power supply

Not defined

Loop power supply

Low voltage power supply:
100 bis 230 V AC (-15% / +10%)
Small voltage power supply:
24 V DC (-50% / +75%)
24 V AC (±50%)

Protection class

IP65

Energy & Application Manager

Input

1 x analogue (I) / pulse (for flow)
1 x RTD (for temperature)
1 x analogue (I) (for density)
Loop power supply 24V DC (+/-16%)

Output

1 x analogue (I) / pulse (active)
2 x open collector

Dimensions (WxHxD)

144 x 144 x 103.1 mm (5.67" x 5.67" x 4.06")

Operation

3 operation buttons and 14 function buttons for batch operation or via FieldCare
Read out of historical / logged data via Field Data Manager software (SQL database and visualization interface)
Selectable language

Display

160 x 80 Dot-Matrix LCD with white backlit
Colour change in case of alarm event
Active display area 70 x 34 mm

Software functions

Volume calculation
1 or 2 stage operation
Manual and automatic overrun correction
Volume correction factor (VCF) according ASTM D1250-04 for generalized crude oils, refined products and lubricating oils

Certificates

CE
CSA GP
NTEP (USA)

Acquisition / Evaluation

Measuring principle

Batch controller

Function

Filling & dosing

Certification

CE

UL listed

CSA GP

Input

1 x analogue (I) / pulse (for flow)

1 x RTD (for temperature)

1 x analogue (I) (for density)

Loop power supply 24V DC (+/-16%)

Output

1 x analogue (I) / pulse (active)

2 x open collector

Relay output

2 x relay

Auxiliary power supply / Loop power supply

Low voltage power supply:

100 bis 230 V AC (-15% / +10%)

Small voltage power supply:

24 V DC (-50% / +75%), 24 V AC (±50%)

Dimensions (wxhxd)

144 x 144 x 103.1 mm

(5.67" x 5.67" x 4.06")

Acquisition / Evaluation

Software

Volume calculation
1 or 2 stage operation
Manual and automatic overrun correction
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