



Measurement and dosing in top quality

Dosing meter OKtronic

- Oval wheel meter for precise metering
- Dosing controller DC 155 for comfortable handling
- Electro-pneumatic two-step valve shutoff
- Metering of highest viscosities (max. 100000mPas)
- Metering of non-conductive liquids
- No inlet or outlet section necessary
- Menu driven software configuration



Characteristics

The electro-pneumatic dosing meter OKtronic combines the precise metering of approved oval wheel meter, the intelligent electronic and modern valve technology to a robust and universal applicable metering unit.

Ergonomics

With a comfortable keyboard, with large keys (22 x 22 mm), a clearly arranged display and the flexible functionality it is easy to realize simple as well as complex batch applications directly in hazardous area, without huge wiring expense to a e.g. panel room in safe area.

Simple remote control

It is possible to realize a remote control for the basic functions "START", "STOP", "RESET"

Process monitoring

The DC155 has a comfortable malfunction and disturbance monitoring system to monitor the sensor wiring and the flow.

To avoid wrong warnings, it is possible to turn off the monitoring for a programmable delay time at the start up phase. This is also possible for over or under-run of limit values.

Analog output

The analog output of the DC155 has a 14 bit resolution and it can drive an impedance up to 600 W, respectively 1000 W, using the separate analog output supply option.

MODBUS interface

With the modbus interface it is possible to view process data (like actual filled amount, total amount, etc) on a DCS for instance. The operator can also

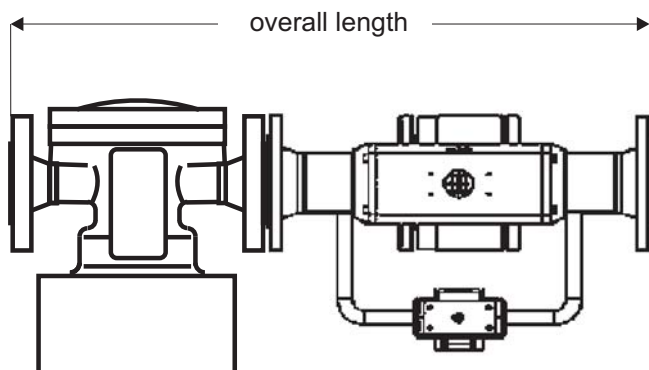
Technical data

General data	Mounting	possible in hazardous area
	Ex-protection	Ex ib IIC T6; 2 II C
	EC- type approval	PTB 98 ATEX 2071
	Ambient temperature	-10°C ...+45°C at T6 -10°C ...+65°C at T4
Housing	Safety class	IP65
Electrical specifications	Power supply	Class intrinsically safe EEx ib IIC
	Power consumption	15V and min. 20 mA = 300 mW (without analog output)

Options

Outputs	Digital output	3 intrinsically safe galvanically isolated digital outputs voltage drop at controlled state 2,5 V
	Analog output	4-20 mA, minimum 600 Ohm, accuracy: < 0,2 % TK < 0,01 %/K
Power supply	Minimal configuration	MUS with U = 15 V, I = 20 mA, Load = 750 Ohm
	DC155.x.0.0.x.0.0.x	
	Additona analogous output	U 15 V, current consumption see above +20 mA or with separate MUS : DC155.x.x.x.x.x.1
	Add. TTY- interface	U = 15 V, current consumption see above + 20 mA
	Add. 2. input acc. NAMUR	U = 15 V, current consumption see above + 6 mA
Print	TTY- interface	Protocoll printout (optional calibratable)
		Remote control via ESC- sequence

Dimensions



Measuring range

OI	Liquid flow [Liter/min]	
	min	max
5	5	50
10	10	100
50	30	300
100	66	660
200	70	700
400	120	1200

Ranges for viscosities from 0,3 to 150mPas

Display



Language selectable

Oval wheel meter	Ball valve combination	Length (in mm)
OI 5	DN 25 - DN 10	620
OI 10	DN 25 - DN 10	620
OI 50	DN 50 - DN 10	745
OI 100	DN 50 - DN 10	815
OI 200	DN 80 - DN 20	1184
OI 400	DN 100 - DN 20	1319
OI 400	DN 100 - DN 25	1319

Data for flanges acc. ANSI upon request

Subject to technical changes

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