

30/01/2020

Qty. | Description

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DDA 12-10



Note! Product picture may differ from actual product

Product No.: 97722112 DDA 12-10 FCM-PP/V/C-F-31U2U2F

The SMART Digital DDA is a compact positive displacement, diaphragm dosing pump with variable-speed drive (stepper motor) and intelligent control electronics with minimum energy consumption. The SMART Digital Dosing series operates at full stroke length to ensure optimum accuracy, priming and suction, even for high-viscosity or degassing liquids. The duration of each discharge stroke varies according to the capacity set, resulting in optimum smooth and continuous discharge flow.

The click-stop mounting plate allows installation in three different positions without using any additional accessories. The control cube can be turned easily into front, left or right position. The click wheel and the multi-coloured backlit graphical, plain-text LC display make commissioning and operation intuitive. The control elements are protected by a transparent cover.

The sensor-based FlowControl (FC) system detects malfunctions directly in the dosing head and displays them in plain text in the alarm menu, e.g. air bubbles, line burst, overpressure. The integrated flow measurement function (only FCM) measures the actual flow and makes additional monitoring and control equipment redundant (accuracy of \pm 1,5 % of set value in case of trouble-free process). The measured flow is displayed and can be integrated in the process control, e.g. SCADA. Furthermore, the AutoFlowAdapt function (only FCM) automatically adjusts the pump speed according to the process conditions to maintain target flow even at e.g. varying backpressure or air bubbles foaming (degassing drive strategy).

The dosing head is composed of:

- Long lifetime and universal, chemically resistant full-PTFE diaphragm.
- Double ball valves for highest dosing accuracy.
- Deaeration valve for easy start-up.
- Pressure sensor.

Operation modes:

- Manual dosing in ml/h, l/h or gph.
- Pulse control in ml/pulse (incl. memory function).
- Analog control 0/4-20 mA (scalable).
- Pulse-based batch function in ml, I or gal.
- Timer-based batch function (Dosing timer, cycle or week).
- Fieldbus control (Genibus prepared for ProfibusDP E-box).

Other features:

- Auto deaeration during pump standby to avoid breakdowns due to air-locking.
- Two SlowMode steps (anti-cavitation), 50 % (maximum flow: 6 l/h) and 25 % (maximum flow: 3 l/h), e.g. for high-viscosity or degassing liquids.
- Service information display to show when service and which wear-part order number is required.
- Two-step key lock function to protect the pump against unauthorised access.
- Additional display function to provide further information, e.g. the actual mA input signal.
- Counter for total dosed volume (resettable), operating hours, etc.
- Save and load customised settings as well as reload of factory settings.

Signal inputs/outputs:



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Descript	ion			
- Inp - Tw tim	ner etc.)	npty-tank signal. relays for max. 3		gurable, e.g. alarm, stroke signal, pump dos
	utput analog 0/4-20mA. eldbus communication i		s, also for additio	nal Profibus DP E-box to retrofit).
Technica	al:			
Type key	:	DDA 12-10 FCM	1-PP/V/C-F-31U2	J2F
Max. Flow		12 l/h		
Max. flow	in slow mode 50%:	6 l/h		
	in slow mode 25%:	3 l/h		
Min flow:		12.0 ml/h		
Turn-dow	n ratio:	1:1000		
	s on nameplate:	CE,CSA-US,EA	CRCM	
Valve typ		Standard	0,100101	
	e. viscosity at 100 %:	300 mPas		
	n viscosity in slow mode			
	n viscosity in slow mode		as	
Accuracy	of repeatability:	1 %		
Materials	5:			
Dosing he	ead:	PP (Polypropyle	ne)	
Valve bal		Ceramic	- /	
Gasket:		FKM		
Installati				
Range of	ambient temperature:	0 45 °C		
Maximum	operating pressure:	10 bar		
Installatio	on set:	NO		
Installatio	on type:	No installation s	et	
Pump inle		4/6, 6/9, 6/12, 9/		
Pump out		4/6, 6/9, 6/12, 9/		
	tion lift during operation			
	tion lift during priming:			
	51 5	-		
Liquid:				
Pumped		Water		
	nperature range:	-10 45 °C		
	liquid temperature:	20 °C		
Density:		998.2 kg/m³		
Electrica	l data:			
	n power input - P1:	24 W		
	• •	24 vv 50 / 60 Hz		
Mains fre				
Rated vol		1 x 100-240 V	,	
	e class (IEC 34-5):	IP65 / NEMA 4X		
Length of		1.5 m		
	able plug:	EU		
Inrush cu	rrent:	25A at 230V for	2ms	
Controls				
		FCM		
Control va		FCM		
Level con		YES		
Analog in		0/4-20 MA		
Pulse cor		YES		
	input:	YES		
Ext. Stop				
Analog ou Output re	utput:	0/4-20 MA		



Company name: Created by:

	GRUNDI	FosX	Created by: Phone:			
			Date:	30/01/2020		
ty.	Description					
	Bus communication:	YES				
	Others:					
	Net weight:	2 kg				
	Gross weight: Color:	3 kg RED				
	Country of origin:	FR				
	Custom tariff no.:	84135040				



Date: 30/01/2020 97722112 DDA 12-10 H [bar] DDA 12-10 2-1. 0 Q [l/h]



		— .		
Description	Value	H [bar]	DDA	12-10
General information:		_		
Product name:	DDA 12-10	11 -		
Product No:	97722112			
EAN number:	5710622722543	10 -		
	5710622722543			
Price:	2.374,00 GBP			
Technical:		9-		
Type key:	DDA 12-10 FCM-PP/V/C-F-31U2U2F			
Max. Flow:	12 l/h	8-		
Max. flow in slow mode 50%:	6 l/h			
Max. flow in slow mode 25%:	3 l/h	7-		
Min flow:	12.0 ml/h			
Turn-down ratio:	1:1000			
Approvals on nameplate:	CE,CSA-US,EAC,RCM	6 -		
Valve type:	Standard			
Maximum viscosity at 100 %:	300 mPas	_		
Maximum viscosity in slow mode		5-		
50 %: Maximum viscosity in slow mode	1300 mPas	4-		
25 %:	2500 mPas	T		
Accuracy of repeatability:	1 %			
Materials:		3-		-
Dosing head:	PP (Polypropylene)			
Valve ball:	Ceramic			
Gasket:	FKM	2-		
Installation:				
Range of ambient temperature:	0 45 °C	1-		
Maximum operating pressure:	10 bar			
Installation set:	NO			
Installation type:	No installation set		2 3 4 5 6 7 8 9 10 11	Q [l/h]
Pump inlet:	4/6, 6/9, 6/12, 9/12 mm			
Pump outlet:	4/6, 6/9, 6/12, 9/12 mm		1. 280	
Max. Suction lift during operation:	6 m			
Max. Suction lift during priming:	3 m			ĺ
Liquid:			╵║╷╷ ╵╴╞╕╶┼╖┍═ <u></u> ┱┶╼╼╾┯┓╲║╲║	
Pumped liquid:	Water	-	◉▮∖∖ ¯ ↓ ¯ □ □ ∖∖	
Liquid temperature range:	-10 45 °C			201
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m ³			2
Electrical data:	· · · · · · · · · · · · · · · · · · ·		╤╢││ॳॳ─┼ᠮ┼─────┤┼─	J
Maximum power input - P1:	24 W	4 xØ 6 105		
Mains frequency:	50 / 60 Hz	168	3	
Rated voltage:	1 x 100-240 V			
Enclosure class (IEC 34-5):	IP65 / NEMA 4X			
Length of cable:	1.5 m			
Type of cable plug:	EU			
Inrush current:	25A at 230V for 2ms			
Controls:	20A at 200 101 21113			
Control variant:	FCM			
Control panel:	FCM FRONT-MOUNTED			
Level control:	YES			
Analog input:	0/4-20 MA			
Pulse control:	YES			
Ext. Stop input:	YES			
Analog output:	0/4-20 MA			
Output relays:	2			
Bus communication:	YES			

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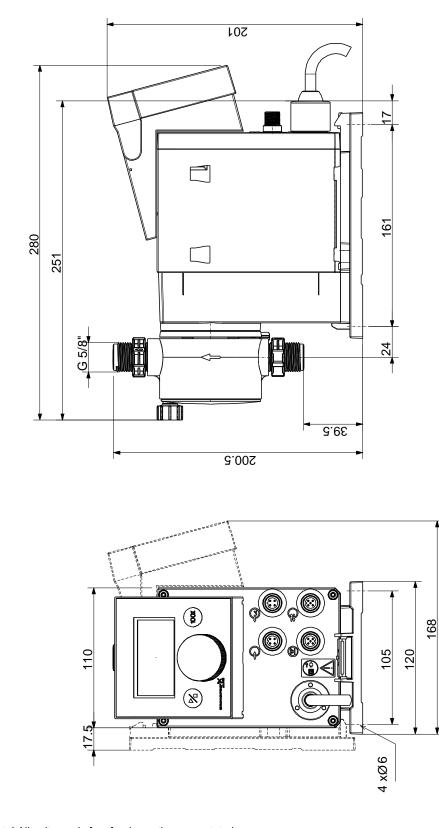


		Date:	30/01/2020
Description	Value		
Others:			
Net weight:	2 kg		
Gross weight:	3 kg		
Color:	RED		
Country of origin:	FR		
Custom tariff no .:	84135040		



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Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.