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REGLO *Analog / Digital*

The smallest calibrateable dispensing pump

Footprint only 178x100 mm!



Dispensing and calibrating
function see Page 5

- Very low pulsation
(model with 12 rollers)
- High repeatability
- 10 cm wide, 13.5 cm high

REGLO *Analog / Digital*

- 2 or 4 channels
- Choice of 6, 8 or 12 rollers
- Click'n'go cassettes with automatic pressure mechanism (each channel can take various tubing sizes)
- 3-stop tubing
- Differential pressure 1.0 bar depending on tubing material. Tubing with small i.d.'s and/or cassettes with pressure lever (Page 60) may enable higher pressures.

REGLO *Digital*
with dispensing functions
0.001–68 ml/min (per channel)
– Microprocessor controlled



REGLO *Analog*
without dispensing functions
0.002–68 ml/min (per channel)
– Variable speed drive

Specifications REGLO *Analog*

Motor type	DC motor	
Speed	2-channel	3.2 – 160 rpm
	4-channel	2.0 – 100 rpm
Speed setting	2–99%, resolution 1% 2-digit potentiometer	
Power consumption	20 W	
Mains connection	230V _{AC} /50Hz, 115V _{AC} /60Hz adjustable	
Protection rating	IP 30	
Depth/Width/Height	2-channel	178x100x143 mm
	4-channel	190x100x143 mm
Weight	2-channel	2.0 kg
	4-channel	2.1 kg

Specifications REGLO *Digital*

Motor type	DC motor	
Speed	2-channel	1.6 – 160 rpm
	4-channel	1.0 – 100 rpm
Speed setting	rpm, resolution 0.1 rpm	
Flow rate setting	μl/min or ml/min	
Power consumption	75 W	
Mains connection	100–230V _{AC} /50–60Hz	
Protection rating	IP 30	
Depth/Width/Height	2-channel	178x100x135 mm
	4-channel	190x100x135 mm
Weight	2-channel	2.0 kg
	4-channel	2.1 kg

Interfaces



REGLO Analog
2-digit potentiometer
2–99%, resolution 1% (for speed setting)



REGLO Digital
6-button membrane key-pad, LED-display
Flow rate setting in µl/min and ml/min



- REGLO Analog**
- Speed control (0–5 or 0–10 V, 0–20 or 4–20 mA)
 - Speed output
2-channel: 0–8 kHz
4-channel: 0–5 kHz
 - Start/Stop
 - Rotation direction



- REGLO Digital**
PC-controllable
Analog: only speed output (see Reglo **Analog**), start/stop and autostart

Flow rates and tubing



Model		REGLO Analog+Digital 2 6		REGLO Analog+Digital 2 8		REGLO Analog+Digital 2 12		REGLO Analog+Digital 4 6		REGLO Analog+Digital 4 8		REGLO Analog+Digital 4 12	
Channels Rollers													
Speed rpm		1.6 ¹ 160		1.6 ¹ 160		1.6 ¹ 160		1.0 ¹ 100		1.0 ¹ 100		1.0 ¹ 100	
Order No.	Tubing i.d. (mm)	ml/min per channel		ml/min per channel		ml/min per channel		ml/min per channel		ml/min per channel		ml/min per channel	
		min. ¹	max.	min. ¹	max.	min. ¹	max.	min. ¹	max.	min. ¹	max.	min. ¹	max.
Tygon®ST R-3603/R-3607													
SC0189	0.13	0.003	0.22	0.002	0.17	0.002	0.15	0.002	0.14	0.002	0.11	0.001	0.093
SC0050	0.25	0.008	0.76	0.007	0.65	0.007	0.61	0.005	0.48	0.005	0.41	0.004	0.38
SC0053	0.51	0.031	3.1	0.027	2.7	0.025	2.5	0.019	1.9	0.017	1.7	0.016	1.6
SC0056	0.76	0.067	6.7	0.058	5.8	0.053	5.3	0.042	4.2	0.036	3.6	0.033	3.3
SC0059	1.02	0.012	12	0.10	10	0.090	9.0	0.073	7.3	0.063	6.3	0.056	5.6
SC0062	1.22	0.16	16	0.14	14	0.12	12	0.10	10	0.088	8.8	0.075	7.5
SC0065	1.52	0.24	24	0.20	20	0.17	17	0.15	15	0.13	13	0.10	10
SC0068	1.85	0.34	34	0.28	28	0.21	21	0.21	21	0.17	17	0.13	13
SC0071	2.54	0.53	53	0.44	44	0.31	31	0.33	33	0.27	27	0.19	19
SC0224	3.17	0.68	68	0.57	57	0.38	38	0.43	43	0.35	35	0.24	24

Approx. values: determined with water, at 22°C, no differential pressure, Tygon tubing.

¹ Min. flow rate for REGLO Analog = 2 % of max. flow rate

Ask for our Pump Tubing Selection Guide (see also Pages 30 to 39).



Spare cassettes MS/CA
(see Page 60)

Ordering information (values in brackets are for REGLO Digital)

Model	Order No.	Order No.	Flow rates	Channels	Rollers	Speed rpm
	REGLO Analog	REGLO Digital	ml/min per channel			
MS-2/06	ISM 830	ISM 831	0.005 (0.003) – 68	2	6	1.6 (3.2)–160
MS-2/08	ISM 829	ISM 832	0.004 (0.002) – 57	2	8	1.6 (3.2)–160
MS-2/12	ISM 795	ISM 596	0.003 (0.002) – 38	2	12	1.6 (3.2)–160
MS-4/06	ISM 828	ISM 833	0.003 (0.002) – 43	4	6	1.0 (2.0)–100
MS-4/08	ISM 827	ISM 834	0.003 (0.002) – 35	4	8	1.0 (2.0)–100
MS-4/12	ISM 796	ISM 597	0.002 (0.001) – 24	4	12	1.0 (2.0)–100
Foot switch	ISM 891	ISM 894	see Page 61			

Spare cassettes MS/CA . . . see Page 60

LabVIEW driver for Reglo Digital download for free: www.ismatec.com

Applications

- Addition of a reagent to a reactor and simultaneous removal of the reaction product from the upper fraction. Ramp control combined with a thermostat to maintain the ΔT during the reaction.
- Simultaneous addition of both components of a 2-component adhesive in ratio 1:10 with two different tubing sizes.