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## REGLO *Analog / Digital*

The smallest calibrateable dispensing pump  
Footprint only 178x100 mm!

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



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

### 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 *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 <sub>AC</sub> /50Hz, 115V <sub>AC</sub> /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 <sub>AC</sub> /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  $\mu\text{l}/\text{min}$  and  $\text{ml}/\text{min}$

**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		REGLO Analog+ Digital		REGLO Analog+ Digital		REGLO Analog+ Digital		REGLO Analog+ Digital		REGLO Analog+ Digital				
	Channels	Rollers	2	6	2	8	2	12	4	6	4	8	4	12	
	Speed rpm	1.6 <sup>1</sup>	160	1.6 <sup>1</sup>	160	1.6 <sup>1</sup>	160	1.0 <sup>1</sup>	100	1.0 <sup>1</sup>	100	1.0 <sup>1</sup>	100	1.0 <sup>1</sup>	100
Tygon®ST R-3603/R-3607	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			
Order No.		min. <sup>1</sup>	max.	min. <sup>1</sup>	max.	min. <sup>1</sup>	max.	min. <sup>1</sup>	max.	min. <sup>1</sup>	max.	min. <sup>1</sup>	max.		
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.

<sup>1</sup> 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](http://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  $\Delta T$  during the reaction.
- Simultaneous addition of both components of a 2-component adhesive in ratio 1:10 with two different tubing sizes.