



## Ismatec<sup>®</sup> Reglo Peristaltic Pumps

# Ideal for space-limited applications

- Get the benefits of peristaltic dispensing with these compact, easy-to-use pumps
- Reglo ICC models offer independent channel control—each channel can be individually set to a different flow rate and/or rotational direction
- Reglo Analog and Digital models provide multichannel pumping, remote control, and easy tubing changes with Click'n'go<sup>™</sup> tubing cassettes
- Choose the single-channel Reglo Quick<sup>™</sup> model for a higher flow rate, flexible tubing configuration, and easy tubing changes



Ismatec.com

## **Reglo ICC (Independent Channel Control) Pumps**

- Set each channel to pump at different speeds and directions
- Independent channel calibration minimizes the tube-to-tube differences offering excellent accuracy
- Control each channel individually via front panel or up to eight pumps remotely via USB or RS-232 interface—eliminates the clutter of multiple pumps
- Click'n'go<sup>™</sup> tubing cassettes allow quick changeovers

Use the Reglo ICC pump to control up to four channels, each with independent functionality—start, stop, dispense, reverse, aspirate, and calibrate. Time-based routines allow for complex experiment development. Control up to eight pumps at once, via the USB hub or by daisy-chaining the RS-232 connectors. Windows®-based software is included. Select from benchtop or panel-mount models.



## **Specifications**

Motor type: stepper motor (1/channel) Speed range: 0.1 to 100 rpm, 0.01 rpm resolution Interfaces: USB 2.0, Mini-B, RS-232 Protection rating: IP30 Weight: 2.7 kg Power consumption: 30 W

Differential pressure: 1.0 bar (14.5 psi)

## **Operating Modes**

Flow rate: continuous operation at a set rate and direction

Volume over time: dispensing a desired volume over a desired time

Volume: dispensing a desired volume at a set flow rate

**Time mode:** dispensing for a set time duration with a set flow rate

Volume with pause: dispensing a set volume over multiple cycles with defined pause time in between

**Time with pause:** dispensing for a set time duration over multiple cycles with defined pause time in between

Calibration: allows each channel to be calibrated for dispensed fluid volume accuracy

Flow Ra	3-Sto Tubia		
Tubing ID (mm)	6 rollers	8 rollers	12 rollers
0.13	0.0002 to 0.14	0.0002 to 0.11	0.0001 to 0.093
0.51	0.0019 to 1.9	0.0017 to 1.7	0.0016 to 1.6
0.57	0.0024 to 2.4	0.0021 to 2.1	0.0019 to 1.9
0.64	0.0030 to 3.0	0.0026 to 2.6	0.0024 to 2.4
0.95	0.0064 to 6.4	0.0056 to 5.6	0.0050 to 5.0
1.02	0.0073 to 7.3	0.0063 to 6.3	0.0056 to 5.6
1.42	0.013 to 13	0.011 to 11	0.0094 to 9.4
1.75	0.019 to 19	0.016 to 16	0.013 to 13
1.85	0.021 to 21	0.017 to 17	0.014 to 14
2.54	0.033 to 33	0.027 to 27	0.019 to 19
2.79	0.036 to 36	0.031 to 31	0.021 to 21
3.17	0.043 to 43	0.035 to 35	0.024 to 24

## **Ordering Information**

**ISO900112008** (E

	•		CERTIFIED SUPPLIER					
No. of No. of Tubing channels rollers accepted		Size (mm)		Power	Catalog number			
Benchtop	pumps							
	6				ISM4206			
2	8	1	193 x 125 x 170		ISM4208			
	12				ISM4212			
3	6	Ismatec		4001.040140	ISM4306			
	8	three-stop	205 x 125 x 170	100 to 240 VAC, 50/60 Hz	ISM4308			
	12	tubing		30/00 112	ISM4312			
	6				ISM4406			
4	8		218 x 125 x 170		ISM4408			
	12				ISM4412			
Panel-mou	unt pumps							
2	8		157 x 127 x 145		ISM4208P			
3	8	Ismatec	169 x 127 x 145	24 VDC	ISM4308P			
4	8	three-stop tubing	182 x 127 x 145	24 VDC	ISM4408P			
4	12		182 x 127 x 145		ISM4412P			

IS3510A Replacement MS/CA Click'n'go tubing cassette, POM-C IS3610A MS/CA Click'n'go tubing cassette, PVDF

POM-C = polyoxymethylene copolymer, PVDF = polyvinylidene fluoride

## **Reglo Analog and Digital Pumps**

- Consistent flow and reduced tubing wear for improved results
- Easy tubing changes—Click'n'go<sup>™</sup> minicartridges snap in place
- No maintenance-rollers are self-lubricating
- Select twelve roller pumps for smoother flow

#### **Analog Pump**

Control speed remotely with an analog input signal. Start/stop or change direction via contact closure; monitor speed through frequency output.

#### Digital Dispensing Pumps with LED Display

- The smallest dispensing pump with calibration function for flow rate and dispensing volume
- Dispense by time: 0.1 seconds to 999.9 hours
- Batches: set delay between dispensed volumes
- Rollers backstep to prevent drips

Remote control capabilities: RS-232 to control all operating functions; 0 to 5, 0 to 10 VDC, 0 to 20, 4 to 20 mA for speed control, start/stop, reverse direction, and autostart via contact closure; foot switch.

#### **High-Pressure Applications?**

Pumps are also available with pressure lever cassettes for applications at elevated differential pressure conditions (>1 bar). Contact our Application Specialists for information.





#### Specifications Analog [Digital]

#### Motor type: DC motor

Speed setting: 2 to 99%, 1% resolution [rpm, 0.1 rpm resolution]

Flow Rate Setting: 2-digit potentiometer [µL/min or mL/min]

Protection rating: IP30

Power consumption: 20 W [75 W]



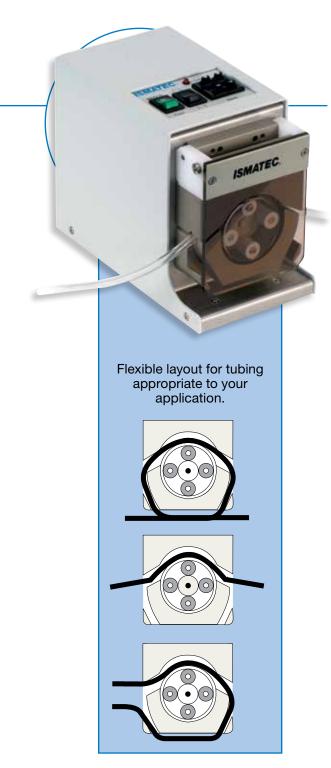
#### Flow Ranges (mL/min per channel)

No. of channels	2	2	2	2	2	2	4	4	4	4	4	1
No. of rollers	(	6	8	3	1	2	6	6	8		12	
Speed rpm	1.6	160	1.6	160	1.6	160	1.0	100	1.0	100	1.0	100
Tubing ID	mL/min po	er channel	mL/min pe	er channel	mL/min pe	er channel	hannel mL/min per channel		mL/min per channel		mL/min per channel	
(mm)	Minimum <sup>†</sup>	Maximum <sup>‡</sup>	Minimum <sup>†</sup>	Maximum <sup>‡</sup>	Minimum <sup>†</sup>	Maximum <sup>‡</sup>	Minimum <sup>†</sup>	Maximum <sup>‡</sup>	Minimum <sup>†</sup>	Maximum <sup>‡</sup>	Minimum <sup>†</sup>	Maximum <sup>‡</sup>
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
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
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
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
1.02	0.12	12	0.10	10	0.090	9.0	0.073	7.3	0.063	6.3	0.056	5.6
1.22	0.16	16	0.14	14	0.12	12	0.10	10	0.088	8.8	0.075	7.5
1.52	0.24	24	0.20	20	0.17	17	0.15	15	0.13	13	0.10	10
1.85	0.34	34	0.28	28	0.21	21	0.21	21	0.17	17	0.13	13
2.54	0.53	53	0.44	44	0.31	31	0.33	33	0.27	27	0.19	19
3.17	0.68	68	0.57	57	0.38	38	0.43	43	0.35	35	0.24	24

Note: Approximate values are determined with water, at 22°C, no differential pressure, Tygon tubing. <sup>†</sup>Minimum flow rates shown are for the Reglo Digital models. The minimum flow rate for Reglo Analog models = 2% of maximum flow rate. <sup>‡</sup>Maximum flow rates shown are for both the Reglo Analog and Reglo Digital models.

## **Ordering Information**

Flow range						Catalog number				
Model	per channel	No. of channels	No. of rollers	Speed range	Tubing accepted	Size (mm)	Weight (kg)	115 VAC, 60 Hz	230 VAC, 50 Hz	
Regio Analog pu	mps									
MS-2/06	0.005 to 68		6			178 x 100 x 143		ISM830-115	ISM830-230	
MS-2/08	0.004 to 57	2	8	1.6 to 160 rpm	Ismatec three-stop tubing		2.0	ISM829-115	ISM829-230	
MS-2/12	0.003 to 38		12		unee-stop tubing			ISM795-115	ISM795-230	
MS-4/06	0.003 to 43		6					ISM828-115	ISM828-230	
MS-4/08	0.003 to 35	4	8	1.0 to 100 rpm	Ismatec three-stop tubing	190 x 100 x 143	2.1	ISM827-115	ISM827-230	
MS-4/12	0.002 to 24		12		three-stop tubing			ISM796-115	ISM796-230	
<b>Reglo Digital dis</b>	pensing pumps witl	n LED display								
MS-02/6	0.003 to 68		6				4.4	ISM831-115	ISM831-230	
MS-2/08	0.002 to 57	2	8	3.2 to 160 rpm	Ismatec three-stop tubing	178 x 100 x 143		ISM832-115	ISM832-230	
MS-2/12	0.002 to 38		12		three-stop tubing			ISM596-115	ISM596-230	
MS-4/06	0.002 to 43		6					ISM833-115	ISM833-230	
MS-4/08	0.002 to 35	4	8	2.0 to 100 rpm	Ismatec three-stop tubing	190 x 100 x 143	x 100 x 143 4.6	ISM834-115	ISM834-230	
MS-4/12	0.001 to 24		12		unee-stop	unee-stop tubilig			ISM597-115	ISM597-230



## **Reglo Quick<sup>™</sup> Pump**

- Four-roller head achieves flow rates up to 230 mL/min
- Easy tubing replacement for reduced downtime
- Compact design frees valuable benchtop space

Wide opening angle makes the tube bed easily accessible for a quick tubing change. Only use with Tygon® LFL, Tygon Lab/LMT-55, Tygon HC, PharMed® BPT, peroxide-cured silicone, and Santoprene® tubing.

## Flow Ranges (mL/min)

<b>3</b> (	( ['	
Tubing ID (mm)	Wall thickness (mm)	Flow range
3.2	1.6	2.1 to 103
4.8	1.6	4.6 to 230

Nominal

**SO900112008** 

## **Specifications**

Motor type: DC motor

Speed range: 3.2 to 160 rpm

Speed setting: 1 to 99%, 1% resolution; 2-digit potentiometer

#### Interfaces:

Analog input: speed control (0 to 5 or 0 to 10 VDC; 0 to 20 or 4 to 20 mA)

Analog output: speed monitoring (0 to 8 kHz) Digital input (TTL level): start/stop, rotation direction

#### Protection rating: IP30

Size: 178 x 100 x 143 mm (pump head closed)

Weight: 2.2 kg

Power consumption: 30 W

## **Ordering Information**

or doring information					CERTIFIED SUP	PLIER 💊 🦋
Model	Flow range	No. of channels	No. of rollers	Tubing accepted	Power (VAC, Hz)	Catalog number
Poglo Quiok	2.1 to 230	1	4	Ismatec	115, 60	ISM897-115
Reglo Quick mL/m	mL/min	1		pump tubing	230, 50	ISM897-230

ISM891 Foot switch for start/stop operation, 6-ft cable





#### For ordering and technical support, please contact:

North America sales@ismatec.com | 1-800-323-4340 | 1-847-549-7600 Europe sales.europe@ismatec.com | +49 (0) 9377 9203-0