IPC / IP and IPC-N / IP-N

Lowest pulsation, highest accuracy Ideal for analytical applications

- Very high repeatability on all channels
- Planetary drive





Tablet dissolution

Dispensing and calibrating

function see Page 5

IPC, IPC-N with dispensing functions

- Microprocessor controlled
- Very accurate pumping
- With stand-by mode (prevents the

tubing system from drying out, e.g. over night)

IPC (and IP) 0.002-44 ml/min (per channel)

IPC-N (and IP-N) 0.4 µl/min-11 ml/min (per channel)

- 4, 8, 12, 16 or 24 channels
- 8 actively driven stainless steel rollers
- Laquered stainless steel housing
- Membrane key-pad and LED display
- Click'n'go cassettes with automatic pressure
- Each channel can take various tubing sizes
- 2-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.



IP and IP-N without dispensing functions

- Microprocessor controlled
- Very accurate pumping
- Flow rates as IPC and IPC-N

Ordering information

Model	Order No.	Model	Order No.	Flow rates	Channels	Speed
IPC / IPC-N		IP/IP-N	IP / IP-N	ml/min per channel		rpm
IPC 4	ISM 930	IP 4	ISM 940	0.002 - 44	4	0.4 – 45
IPC 8	ISM 931	IP 8	ISM 941	0.002 - 44	8	0.4 – 45
IPC 12	ISM 932	IP 12	ISM 942	0.002 - 44	12	0.4 – 45
IPC 16	ISM 933	IP 16	ISM 943	0.002 - 44	16	0.4 – 45
IPC 24	ISM 934	IP 24	ISM 944	0.002 - 44	24	0.4 – 45
IPC-N 4	ISM 935	IP-N 4	ISM 945	0.0004 - 11	4	0.11 – 11.25
IPC-N 8	ISM 936	IP-N 8	ISM 946	0.0004 - 11	8	0.11 – 11.25
IPC-N 12	ISM 937	IP-N 12	ISM 947	0.0004 - 11	12	0.11 – 11.25
IPC-N 16	ISM 938	IP-N 16	ISM 948	0.0004 - 11	16	0.11 – 11.25
IPC-N 24	ISM 939	IP-N 24	ISM 949	0.0004 - 11	24	0.11 – 11.25

Foot switch for IPC / IPC-N and IP / IP-N Order No. IS 10039 see Page 61

CA spare cassettes and adaptors

LabVIEW driver

Order No. see Page 60

download for free www.ismatec.com



Studies and simulation of the environmental influences of rain water in free-land plants.

Applications

- Toxicological in-vitro use
- Perfusion of animal tissue slices
- Sampling from tablet dissolution systems

Interfaces



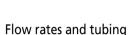


IPC, IPC-N PC-controllable Analog: same as IP, IP-N



IP, IP-N

- Speed control (0–5 or 0–10 V, 0–20 or 4–20 mA)
- Speed output (0–10 V or 0–11 kHz)
- Start/Stop
- Rotation direction
- Autostart



Model Channels Rollers Speed rpm		IPC / IP 4 / 8 / 12 / 16 / 24 8		IPC-N / IP-N 4 / 8 / 12 / 16 / 24 8	
		0.4	44.0	0.11	11.25
Tygon [®] ST R-3603/R-3607 Order No.	Tubing i.d. (mm)	ml/min per channel min.	ml/min per channel max.	ml/min per channel min.	ml/min per channel max.
SC0188	0.13	0.002	0.15	0.0004	0.039
SC0002	0.25	0.005	0.41	0.001	0.10
SC0005	0.51	0.015	1.5	0.004	0.38
SC0008	0.76	0.032	3.2	0.009	0.81
SC0011	1.02	0.057	5.7	0.014	1.4
SC0014	1.22	0.079	7.9	0.020	2.0
SC0017	1.52	0.12	12	0.030	3.0
SC0020	1.85	0.17	17	0.043	4.3
SC0023	2.54	0.30	30	0.075	7.5
SC0222	3.17	0.44	44	0.11	11
Approx. values	determir	ned with wa	ter, at 22°C,	no differen	tial
pressure, Tygon tubing.					



With the planetary drive system each roller is directly driven by the sun wheel. This prevents

axial push-pull friction on the tubing. Result: increased service-life of the tubing, lower pulsation, high repeatability.

Ask for our Pump Tubing Selection Guide.

(see also Pages 30 to 39)













24 channels

380x175x130 7.9

Specifications IPC and IPC-N Specifications IP and IP-N

	specifications in Callu in C-IV				
	Motor type	DC motor			
	Speed IPC	0.4–44 rpm			
	IPC-N	0.11-11.25 rpm			
	Speed setting	1-100 %, resolution 0.1%			
	Flow rate setting	μl/min or ml/min			
	Power consumption	30 W			
Mains connection		230V _{AC} /50Hz,115V _{AC} /60Hz			
		adjustable			
	Protection rating	IP 30			

Specifications IP and IP-N

Specifi	cations in	ana n N
Motor ty	pe	DC motor
Speed	IP	0.4–44 rpm
	IP-N	0.11-11.25 rpm
Speed se	tting	1–100 %, resolution 0.1%
	IP	rpm, resolution 0.1 rpm
	IP-N	rpm, resolution 0.03 rpm
Power co	nsumption	30 W
Mains connection		$230V_{AC}/50Hz$, $115V_{AC}/60Hz$ adjustable
Protection rating		IP 30

Depth/Width/Height (mm)

Weight (kg)

16 channels

Dimensions / Weight 4 channels Depth/Width/Height (mm) 180x175x130 Weight (kg) 4.6 8 channels Depth/Width/Height (mm) 220x175x130 Weight (kg) 5.1 12 channels Depth/Width/Height (mm) 260x175x130 Weight (kg) 5.8 16 channels Depth/Width/Height (mm) 300x175x130 Weight (kg) 6.5 24 channels