IQ+FLOW IQP-600C EPC (P2-CONTROL)

Microfluidic Forward Pressure Controller

- Small footprint ensures space efficiency
- Very small internal volume
- Economical solution, low cost of ownership
- Analog or digital communication



Microfluidic Forward Pressure Controllers

Bronkhorst[®] model IQP-600C Forward Pressure Controllers are miniature devices which are ideal for use in cramped environments or in systems requiring minimum internal volume e.g. analytical equipment. The Pressure Controller has a chip-based (MEMS) sensor and is suited for pressure ranges between 0,025... 0,5 bar and 0,5...10 bar absolute or gauge. Communication with the devices can be either in analog mode or digital over RS232 or RS485.

The ultra compact IQ⁺FLOW instruments are typically recommended for integration in analytical and medical equipment.

Technical specifications

Measurement / control system

Pressure ranges	min. 0,025 0,5 bar max. 0,5 10 bar
Accuracy (incl. linearity and hysteresis)	\leq ± 0,5 % FS (Based on calibration at ambient temperature.)
Repeatability	$\leq \pm 0,2 \% FS$
Turndown ratio	1 : 20 (with flow range 1 : 50)
Fluids	Dry, clean, non-flammable and non-corrosive gases. Absolute pressure sensors not suitable for He.
Operating temperature	5 50 ℃
Temperature sensitivity	span: 0,1% RD/°C; zero: 0,05% FS/°C
Max. Kv-value	2,37 x 10 ⁻³
Leak integrity, outboard	1 x 10 ⁻⁶ mbar·l/s He
Attitude sensitivity	negligible

Mechanical parts

Material (wetted parts)	aluminium, Si, SiOx, epoxy; option: stainless steel body (SS316L)
Process connections	optional: 10-32 UNF threaded internal nut with 1/16" ferrule (SS316 or Peek), 1/16" or 1/8" OD compression type
Seals	standard: Viton®; other on request
Weight	120 g (Aluminium) / 180 g (SS316L)
Ingress protection	IP40

Electrical properties

Readout sample time	2 msec
Power supply	+15 24 Vdc
Max. power consumption	100 mA
Analog output	05 (10) Vdc or 0 (4)20 mA (sourcing output)
Digital communication	RS232, RS485 (Modbus-RTU/ASCII or FLOW-BUS)

Electrical connection

Power/Analog/RS232/RS485

RJ45 modular jack

Technical specifications subject to change without notice.

For dimensional drawings and hook-up diagrams please visit the product page on our website

Recommended accessories



E-8000 SERIES

Digital Readout / Control Systems

Bright, wide angle, 1.8" display (TFT technology) User friendly operation, menu driven with

4 push buttons



PIPS SERIES

Plug-in Power Supply

For lab-style or industrial devices Interchangeable plugs (Euro, UK, USA, Australian, IEC) for mains connection

Related products



IQ+FLOW IQPD-600C EPC (P2-CONTROL)

Min. pressure 0,025...0,5 bar Max. pressure 0,5...10 bar Ultra compact; downported MEMS technology



IQ+FLOW IQP-500C

Min. pressure 0,01...0,5 bar Max. pressure 0,2...10 bar Ultra compact MEMS technology



IQ+FLOW IQP-700C EPC (P1-CONTROL)

Min. pressure 0,1...0,5 bar Max. pressure 2...10 bar Ultra compact MEMS technology



IQ+FLOW IQF-200C MFC

Min. flow 0...10 mln/min Max. flow 0...5 ln/min Pressure rating 10 bar Ultra compact MEMS technology



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