


QUOTATION

Customer	: University of Edinburgh, Edinburgh	Quote nr.	: U2311171-A
F.a.o.	: Mrs. S Farrukh	Date	: 13 September 2023
Tel	: Gen: 0131 650 8545	Pages	: 3
Email	: sfarrukh@ed.ac.uk		

Dear Mrs. Farrukh,

Further to your recent enquiry, please find below our quotation for the requested items.

001/000	1	pc	7.10.024	<u>LOW-ΔP-FLOW F-201DV Mass Flow Controller</u>	
	Model key	:	F-201DV-AAD-11-K		
	Product series	:	LOW-ΔP-FLOW		
	Ingress protection	:	IP-40		
	Material	:	Stainless steel 316		
	Control function	:	Flow control		
	Fluid	:	NH3 (Ammonia)		
	Flow range	:	1.2...60 ml/min (8 bar (a), 20 °C)		
	Accuracy	:	±1% FS		
			(At calibration conditions)		
	Calibration certificate	:	3-point calibration		
	Inlet pressure (P1)	:	8 bar (a)		
	Outlet pressure (P2)	:	0 bar (a)		
	Valve function	:	Normally Closed		
	Orifice	:	0.14 mm		
	Temperature	:	20 °C		
	Seals	:	Kalrez 6375		
	Plunger	:	Kalrez 6375		
	Inlet connection	:	1/8" OD compression		
	Outlet connection	:	1/8" OD compression		
	Output signal	:	RS-232 0...100 % (0...5 Vdc)		
	Setpoint	:	RS-232 0...100 % (0...5 Vdc)		
	Power supply	:	+15...24 Vdc		
	Price	:	£ 1,522.00 (€ 1,691.11)		
	Discount	:	15% (£ 228.30)		
	Total Price	:	£ 1,293.70 (€ 1,437.44)		



002/000 1 pc 7.10.019



EL-FLOW Select F-201CV-1K0 Mass Flow Controller

Model key	: F-201CV-1K0-AAD-11-V
Product series	: EL-FLOW Select
Ingress protection	: IP-40
Material	: Stainless steel 316
Multi Fluid Multi Range	: Disabled
Control function	: Flow control
Fluid	: N2 (Nitrogen)
Flow range	: 2...100 ml/min (10 bar (a), 20 °C)
Accuracy	: ±0.5% Rd plus ±0.1% FS (At calibration conditions)
Calibration certificate	: 3-point calibration
Inlet pressure (P1)	: 10 bar (a)
Outlet pressure (P2)	: 0 bar (a)
Valve function	: Normally Closed
Orifice	: 0.20 mm
Temperature	: 20 °C
Seals	: Viton 51415
Plunger	: Viton 51415
Inlet connection	: 1/8" OD compression
Outlet connection	: 1/8" OD compression
Output signal	: RS-232 0...100 % (0...5 Vdc)
Setpoint	: RS-232 0...100 % (0...5 Vdc)
Power supply	: +15...24 Vdc
Price	: £ 1,241.00 (€ 1,378.89)
Discount	: 15% (£ 186.15)
Total Price	: £ 1,054.85 (€ 1,172.05)

003/000 2 pcs 7.10.053



LOW-ΔP-FLOW F-101E Mass Flow Meter

Model key	: F-101E-AAD-11-K
Product series	: LOW-ΔP-FLOW
Ingress protection	: IP-40
Material	: Stainless steel 316
Fluid	: Mix: 80.0% N2 (Nitrogen) + 20.0% NH3 (Ammonia) (mass %)
Flow range	: 10...500 ml/min (10 bar (a), 20 °C)
Accuracy	: ±1% FS (At calibration conditions)
Calibration certificate	: 3-point calibration
Inlet pressure (P1)	: 10 bar (a)
Temperature	: 20 °C
Seals	: Kalrez 6375
Inlet connection	: 1/8" OD compression
Outlet connection	: 1/8" OD compression
Output signal	: RS-232 0...100 % (0...5 Vdc)
Power supply	: +15...24 Vdc
Price	: £ 1,164.00 (€ 1,293.33)
Discount	: 15% (£ 174.60)
Nett Price (per unit)	: £ 989.40 (€ 1,099.33)
Total Price	: £ 1,978.80 (€ 2,198.66)

004/000 4 pcs 7.03.422



PiPS-EL Plug-in PS SubD9
Plug In Wall Power Supply

Price	: £ 86.00 (€ 95.56)
Discount	: 15% (£ 12.90)
Nett Price (per unit)	: £ 73.10 (€ 81.22)
Total Price	: £ 292.40 (€ 324.89)

LOW FLOW FLUIDICS HANDLING TECHNOLOGY



005/000 4 pcs 7.03.366



Cable RS232 T-part DB9 MBC-II
Length = 3 meters

Price : £ 76.00 (€ 84.44)
Discount : 15% (£ 11.40)
Nett Price (per unit) : £ 64.60 (€ 71.78)
Total Price : £ 258.40 (€ 287.11)

006/000 4 pcs 9.09.122



Digitus USB 2.0 serial adapter
Serial to USB adapter

Price : £ 31.00 (€ 34.44)
Discount : 15% (£ 4.65)
Nett Price (per unit) : £ 26.35 (€ 29.28)
Total Price : £ 105.40 (€ 117.11)

Terms and Conditions

Total goods : £ 4,983.55
Shipping cost : £ 74.75
Total amount (excl. VAT) : **£ 5,058.30**
Lead time : Ca. 9 working weeks after receipt of order
Quote validity : 30 days from date of offer
Delivery : 1.5% of order value (CIF, UK mainland) £20.00 min.
Payment : 30 days net, approved accounts, from invoice date

****Potential Lead Time Change** - we feel it is important to inform you of a global supply shortage impacting on electronic components. Bronkhorst is working closely with our supply chain partners to prevent effects of this shortage being felt by you the customer. As such please be advised that the stated lead times may be subject to change.**

Gases are always assumed to be both Clean & Dry.

Warranty - all Bronkhorst instruments are supplied with a Warranty period, starting at time of despatch from our Factory in Holland & running for a length of 3 years. In the unlikely event that a unit needs to be returned for repair during this time, it would be returned (once repaired) with a Warranty of 1 year or the remainder of the 3 year period, whichever is longest.

Calibration Certificates - are generally supplied with Bronkhorst instruments as standard. For EL Flow Base, Calibration Certificates are available for an additional charge. For all Mass Flow Online products, please enquire with the Sales Team.

If you require any further information, please do not hesitate to get in touch.

Yours sincerely,

Rebecca Johnson
Bronkhorst® UK

Bronkhorst UK offers:

Mass Flow Measurement and Control for Gases



lowest range: 0,014...0,7 ml_n/min
highest range: 220...11.000 m³_n/h



Mass Flow Measurement and Control for Liquids



lowest range: 5...100 mg/h
highest range: 6...600 kg/h



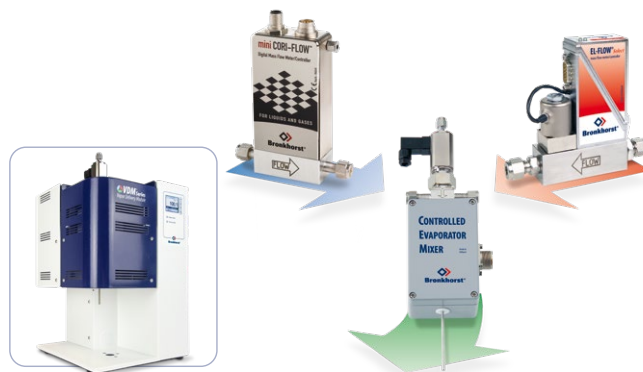
Pressure Measurement and Control for Gases and Liquids



2...100 mbar absolute / differential or 0,7...35mbar gauge
0...400 bar absolute / gauge or 0,3...15 bar differential



Liquid Delivery System with Vapour Control



Bronkhorst Dosing Solutions with Pump



Customised Manifold Solutions for Mass Flow and/or Pressure Measurement and Control



Webshop for flow meters:
www.massflow-online.com



Accessories and Software



- > Power Supply
- > Readout
- > Cables
- > Software
- > Filters
- > ISO 17025 Calibration

