IN-PRESS

F-0XXAI with P-5X2CI

Industrial Style Forward Pressure Controller

Bronkhorst®

Technical specifications

Measurement & control

Accuracy	±0.5% FS
Repeatability	≤ 0.1% RD
Control stability	≤ ± 0,05% FS (typical for 1 ln/min N2 at specified process volume)
Response time (sensor)	2 msec
Operating temperature	-10…+70°C; 0…+50°C for ATEX zone 2, KCs
Temperature sensitivity	0.1% FS/°C
Leak integrity, outboard	tested $< 2 \times 10^{-9}$ mbar l/s He
Pressure range sensor	min. 2 … 100 mbar max. 8 … 400 bar
Warm-up time	negligible

Approvals

Marking	CE, UKCA, RoHS, WEEE, REACH
Ex-Protection	ATEX Zone 2, KCs

Mechanical specs

Pressure rating (PN) - in barg	400
Ingress protection	IP65
Material wetted parts	stainless steel 316L or comparable
Sealing material	standard: Viton®; options: EPDM, Kalrez® (FFKM)
Process connections	compression type or face seal (VCR/VCO) couplings

Electrical properties

Power supply	+15…24 Vdc
Power consumption	3.5 W typical at 24 V for fieldbus: add 0.9 W
Analog output	0…5 (10) Vdc or 0 (4)…20 mA (sourcing)
Analog setpoint	0…5 (10) Vdc or 0 (4)…20 mA (sinking)
Digital communication	standard: RS232 options: PROFIBUS DP, CANopen®, DeviceNet™, PROFINET, EtherCAT®, Modbus RTU, ASCII or TCP/IP, EtherNet/IP, POWERLINK, FLOW-BUS

Electrical interfaces

Power (main connector)	8-pin M12A (male)
Function (instrument connector)	RS232, Analog, RS485
PROFIBUS DP	8-pin M12B (female)
CANopen / DeviceNet	5-pin M12A (male)
Modbus RTU/ASCII/FLOW-BUS	5-pin M12A (male)
Modbus TCP / EtherNet/IP / EtherCAT®/ PROFINET / POWERLINK	2x 4 pin M12D (female)