IN-PRESS
P-802CI
Process Pressure Controller, Industrial Style

Bronkhorst®

Technical specifications

Measurement & control

Accuracy	±0.5% FS
Repeatability	< 0,25% 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; for ATEX Cat. 3: 0…50°C
Temperature sensitivity	0.1% FS/°C
Leak integrity, outboard	tested < 2 x 10^{-9} mbar l/s He
Pressure range sensor	min. 7... 350 mbar max. 1.28... 64 bar
Warm-up time	negligible

Approvals

Marking	CE
Ex-Protection	ATEX Zone 2, ATEX Zone 22, KCs

Mechanical specs

Pressure rating (PN)	0
Ingress protection	IP65
Material wetted parts	stainless steel 316L or comparable
Sealing material	standard: FKM/Viton®; options: EPDM, FFKM/Kalrez®, FDA and USP Class VI approved compounds
Process connections	compression type or face seal (VCR/VCO) couplings
Weight	2.8

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 (main 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)