EL-PRESS

P-512C

Digital Electronic Pressure Meter

Bronkhorst®

Technical specifications

Measurement & control

Accuracy	±0.5% FS
Repeatability	≤ 0.1% Rd
Response time (sensor)	2 msec
Operating temperature	-10…+70°C
Temperature sensitivity	0,1% FS/°C
Leak integrity, outboard	Elastomer sealed: < 2 x 10-9 mbar l/s He Metal sealed: < 2 x 10-11 Pa.m3/s He
Pressure range sensor	min. pressure 1.28… 64 bar, max. pressure 2…100 bar
Mounting	< 0.3 mbar (abs./rel. sensors) < 6 mbar (dif. sensors)
Warm-up time	negligible
Storage/transport conditions	0...+50°C, max. 95% RH (non-condensing)

Approvals

Marking	CE

Mechanical specs

Pressure rating (PN)	0
Ingress protection	IP40
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	0.4 kg

Electrical properties

Power supply	+15…24 Vdc
Power consumption	1.5 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)	9-pin D-sub (male)
Function (main connector)	RS232, Analog, RS485
PROFIBUS DP	9-pin D-sub (female)
CANopen / DeviceNet	5-pin M12A (male)
Modbus RTU/ASCII/FLOW-BUS	RJ45
Modbus TCP / EtherNet/IP / EtherCAT®/ PROFINET / POWERLINK	2x RJ45