

EQ-DA-Series

Diaphragm Actuator

- Pressure range: -1 to 200 bar gauge
- High precision & accuracy
- Minimal pressurized gas consumption in steady state
- Minimal dead volume
- Open & closed loop control options
- External sensors for easy adaptation



PRESSURE CONTROL
— SOLUTIONS —

EQ-DA Series

State-of-the-art pneumatic controller, designed by Pressure Control Solutions and built for **high-precision control of Equilibar® dome-loaded control valves up to 200 bar**. For an uncompromising, high-end performance in the control of process parameters such as pressure, flow, level and delta-P. The EQ-DA solves the most demanding process control challenges, while optimizing control stability, rangeability, chemical compatibility, temperature and accuracy.

- Available in a 200 barG version (SS316) and a 70 barG version (aluminum); the cover is a strong aluminum extrusion housing with IP-65 rated seals
- Internal pressure sensor that is highly-accurate, digital, with temperature compensation; communicating its measured value over I2C to the main PCB
- PCB equipped with a powerful 500 MHz processor, that allows to perform ≤ 2 ms PID control based on multiple process inputs
- Monochrome and multi-color LED's indicate control status, supplying the user with real-time data on the control behavior of the instrument
- USB-C connection on top of the instrument, facilitating the user to configure and monitor all process information through a designated GUI

FEATURE	DETAILS
Control stability	0,1% of Full Scale (optional 0,01%)
Repeatability	<0,02%
Sensor accuracy	0,5 % Full Scale
Pressure transmitter	Up to 200 bar - Full scale range per customer request
Temperature range	-10...50°C
Power supply	+24 Vdc (300 mA)
Fail safe (Dual valve)	Pressure Hold (both valves are normally closed)
Seals	Viton
Tube fitting sizes	1/8" OD compression type (more options available on request)
Cv values	2.0E-6 up to 0,06
Analog communication	0...5 (10) Vdc or 0 (4)...20 mA (sourcing output)
Standard digital communication	ModBus RTU (RS-485 or USB)
Optional digital communication	ProfiNet Ethercat ModBus TCP/IP (more options available on request)
Weight	1,2 kg

CONTACT PCS