

8793 Process controller



Digital electropneumatic process controller

- · Compact and robust design
- Easy Start-up using tune function of the positioned and process controller
- Integrated diagnostic functions for valve monitoring
- Dynamic positioning system with no air consumption in controlled state
- Optimized for high-pressure proportional valves MPG and HPG
- Version for quarter-turn actuators (NAMUR) available

The robust and compact Bürkert process controller has been tailored for m-tech proportional valves with a remote stroke sensor. The process controller is equipped with additional diagnostic functions to monitor the state of the valve. Operation is done via the external operation and display module with a backlit graphical display.

Technical data

- Material body
- Operating voltages
- Residual ripple
- Setpoint setting
- Input resistance
- Analogue feedback
- Binary input
- Pilot media

Dust concentration

Particle density

Pressure condensation point

Oil concentration

- Ambient temperature
- Pilot air ports
- Supply pressure
- Air supply filter
- Installation
- Type of protection
- Electrical connection
 - Cable gland
- Conformity
- Considered standards

Weight

Aluminium plastic-coated

24 V DC +/- 10 %

max. 10 %

0/4 bis 20 mA and 0 bis 5/10 $\rm V$

0/4 bis 20 mA: 180 Ω

0 bis 5/10 V: 19 $k\Omega$

4-20 mA, 0-20 mA

0-10 V, 0-5 V

galvanically isolated, 0-5 V = log "0", 10-30 V = log "1"

neutral gases, air DIN ISO 8573-1

Class 7 (<40 µm particle size)

Class 5 (<10 mg/m³)

Class 3 (<-20 °C)

Class X (<25 mg/m³)

0 °C to + 60 °C

Threaded ports G 1/4

6-7 har

Exchangeable (aperture size ~ 0,1 mm)

as required, display above or sideways

IP65 and IP67 acc. to EN 60529

2xM20x1,5 (cable Ø10 mm) on screw terminals

(0,14-1,5 mm²)

1xM12x1,5 (cable Ø3 to 6,5 mm)

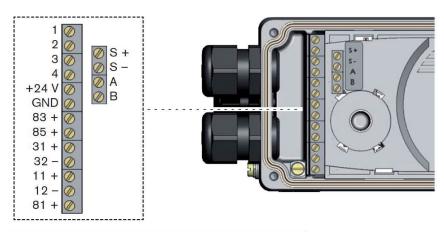
EMV directive 2004/108/EG

CAN/CSA-C22 2 Nr. 139

UL 429

1 kg

Connection options



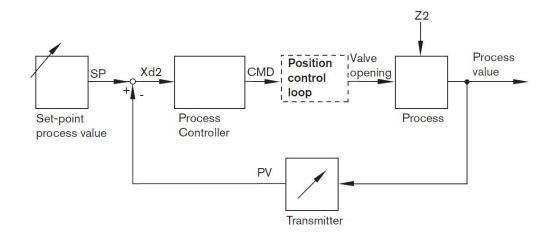
Terminal	Configuration	External circuitry / signal level
11+	Setpoint +	11+ • + (4-20 mA or 0 5 / 10 V) Completely galvanically separated
12-	Setpoint GND	12- • GND O5 V (log. 0)
81+	Binary input +	81+ • + 1030 V (log.1)
+24 V	Operating voltages +	+24 V o 24 V DC ± 10 %
GND	Operating voltages GND	GND • max. residual ripple 10 %

Analogue feedback / binary output

Terminal	Configuration	External circuitry / signal level		
83+	Binary output 1	83+ • 24 V/0 V, NC/NO Obtained at GND operating voltages		
85+	Binary output 2	(GND clamps) 85+ • 24 V/0 V, NC/NO Obtained at GND operating voltages (GND clamps)		
31+	Analogue feedback +	31+ • + (0/4-20 mA or 0-5/10 V) Completely galvanically separated		
32-	Analogue feedback GND	32- → GND		

Pressure transmitter type PTG, internally supplied

Terminal	Configuration	Exterr	nal Circuitry
1	+24V transmitter input	1	o Transmitter
2	Output from transmitter	2	• ITALISTITUE
3	Bridge after GND	3	•
4	Not used	GND	



Part numbers

Execution Application
 DN 0,6 MPG 03 PR / HPG 12 PR 04178
 DN 2,0 MPG 12 PR / PCG-H15 PR 04176
 NAMUR DN 0,6 Rack/pinion actuators (Single acting) 04193
 NAMUR DN 2,0 Rack/pinion actuators (Single und double acting) 04194

Remote stroke sensor
 Cable length

5 m (Standard) 04161

10 m, 20 m, 20 m ATEX Other length on request

Dimensions

