

Datasheet

Valve positioner

Si-811 EN

Edition: 2010-04

Type TZID-C

Electro-pneumatic

The positioner type TZID-C offers following features:

Position indication:	Visual indication of the valve position.
Vibration resistance:	$\pm 1\%$ up to 10 g and 20-80 Hz.
Low air consumption:	By using an I/P-converter, instead of a conventional pilot valve, the air consumption in balanced position is very low.
Easy calibration:	The auto-tune function makes the calibration very easy.
High resolution:	The A/D- and the D/A-converter have a resolution of 4000 steps giving a high control accuracy.
Local calibration:	Built-in key set and display gives access to a number of functions.
Digital communication:	HART, Profibus PA, Foundation Fieldbus
Diagnostic:	By using alarms and diagnostic functions, predictive maintenance of valve and actuator can be done.
Software support:	EDDL- and DTM-files are available.





Technical specification

Case

Material	Aluminium
Protection class	IP65
Electric connection	M20x1.5
Pneumatic connection	G ¼"
Weight	1.7 kg

Input

Signal range	4-20 mA
Supply voltage	Max. 30 V DC Min. 8.7 V DC
Input resistance	435 Ohm

Output

Air capacity	13 kg/h at 6 bar supply pressure
Function	Double or single acting

Option

Communication	HART, Profibus PA, Foundation Fieldbus
Feed-back	4-20mA, 2-wire Digital feed-back Limit switches
Explosion protection	EEx ia/ib II C T6 ATEX EEx n A II T6 EExd II C T4-T6

Air supply

Instrument air	Oil, water and dust free according to DIN/ISO 8573-1, Class 3
Supply pressure	1.4-6 bar (e)
Air consumption	< 0.03 kg/h independent of supply pressure

Others

Ambient temp.	-30 to +85°C
Function	Linear, logarithmic or with 20 freely selected points
Deviation	≤ 0.5 %
Resolution	4000 steps (A/D conversion)
Influence ambient temp.	≤ 0.5 % of full span/10°K
Ref. temperature	20°C
Vibration resistance	± 1% up to 10 g and 20 - 80Hz

SOMAS reserves the right to make improvements without prior notice.



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