

Electro-pneumatic Positioner TZIDC-120/-220

Compact, intelligent

Digital communication via FOUNDATION Fieldbus



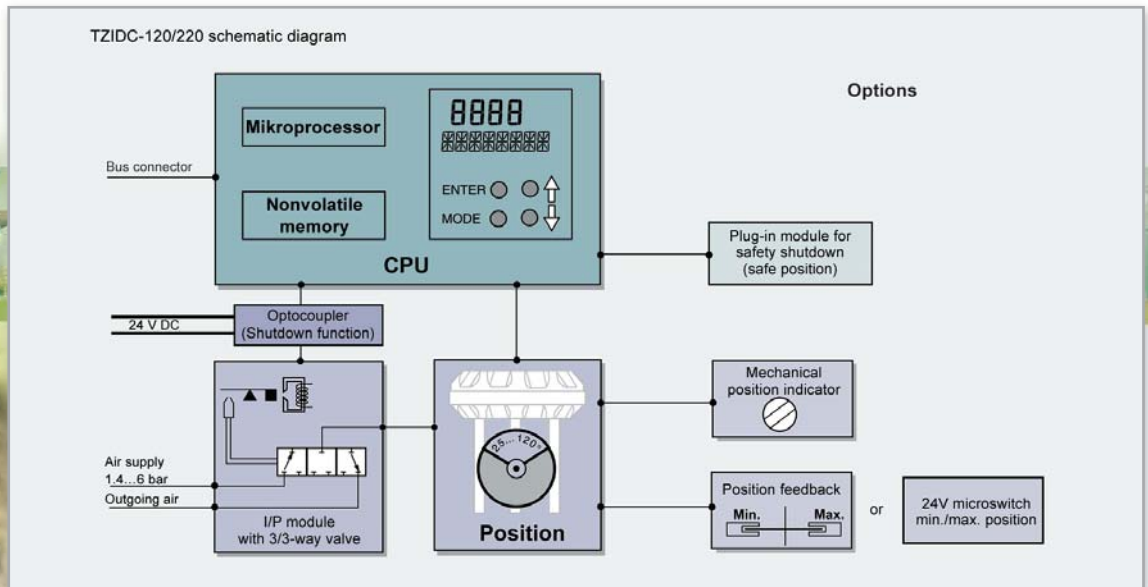
- Digital communication acc. to Foundation Fieldbus, Revision 1.5
- Easiest commissioning and operation on site due to local operation and auto adjustment
- Various Ex-approvals (IS + explosion proof) for use in any environment
- Robust design and flexible in use with linear and rotary actuators

ABB Instrumentation



TZIDC-120/-220 – The digital Compact

The TZIDC-120/-220 represents the digital, intelligent positioner for communication via FOUNDATION Fieldbus within the TZIDC positioner family. Thanks to the auto adjustment function the commissioning work is considerably reduced. The push buttons of the local control panel allow for setting further configuration. The setting via FOUNDATION Fieldbus is possible as well. This way the TZIDC-120/-220 operates very easily. Thanks to the modular design it can be mounted to linear as well as rotary actuators and is thus very flexible in use. Furthermore the unmatched shock and vibration immunity of 10g up to 80 Hz distinguishes the TZIDC-120/-220 from other's and results in reliable operation in almost all areas under harshest environmental conditions.



Specifications

Communication	<ul style="list-style-type: none"> - FOUNDATION Fieldbus - ITK Version 4.51 - enhanced PID function block - backup LAS function block 	Housing	aluminium, IP65 (NEMA 4X)
Cycle time	<ul style="list-style-type: none"> - AO-block 40 ms - PID-block 50 ms 	Vibration immunity	10g at 10...80 Hz
Diagnosis features	<ul style="list-style-type: none"> - via Alarms - via control parameters 	Easy setup function	
Basic current	11.5 mA	Ex-approvals	TZIDC-120/TZIDC-220 intrinsically safe
Failure current	15 mA (11.5 mA +3.5 mA)		- ATEX Ⓢ II 2 G EEx ia IIC T6, FM/CSA pending
Air supply	1.4...6 bar		TZIDC-220 flameproof enclosure
Air capacity	13 kg/h; 6.0 scfm		- ATEX Ⓢ II 2 G EEx d IIC T6, FM/CSA pending
Ambient temperature	-40...+85 °C/-40...+185 °F	Option modules	<ul style="list-style-type: none"> - 24V-micro switches for min./max. valve position - Pepperl & Fuchs slot initiators - Type SJ2-SN or SJ2-S1N for min./max. valve position - Safety shutdown module (AK4)



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