

# Electro-pneumatic Positioner TZIDC-110/-210

## Compact, intelligent

Digital communication via PROFIBUS PA



- Digital communication acc. to PROFIBUS PA profile, version 3.0, class B
- FDT/DTM-technology serves for central configuration, documentation, diagnosis as well as Asset Management
- 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 designed and flexible in use with linear and rotary actuators

Field<sup>IT</sup>

Analyze<sup>IT</sup> Control<sup>IT</sup> Engineer<sup>IT</sup> Field<sup>IT</sup> Inform<sup>IT</sup> Operate<sup>IT</sup> Power<sup>IT</sup> **Industrial<sup>IT</sup>**

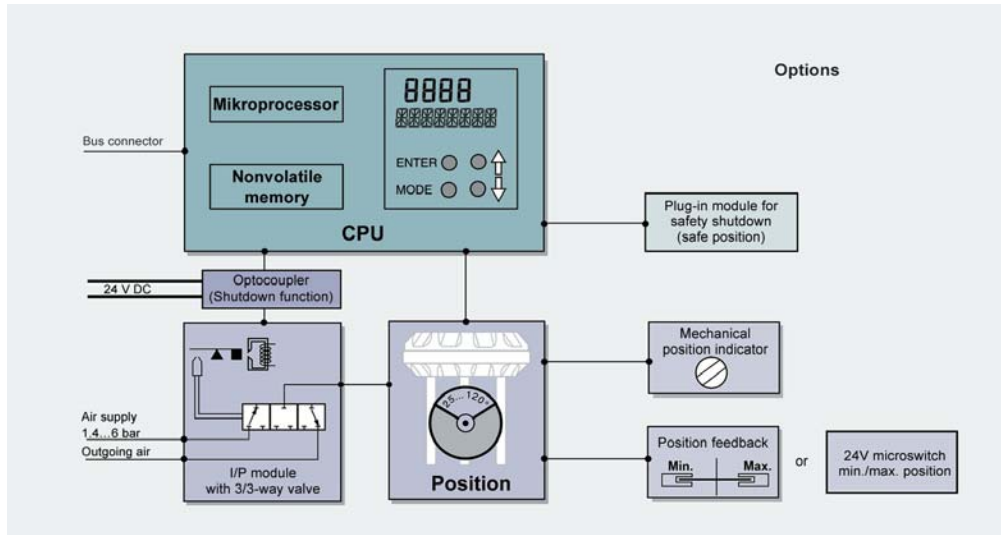
**ABB**

## The digital Compact: TZIDC-110/-210

The TZIDC-110/-210 represents the digital, intelligent positioner for communication via PROFIBUS PA 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 the bus address and further configuration. The setting via PROFIBUS is possible as well. This way the TZIDC-110/-210 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-110/-210 from other's and guarantee reliable operation in almost all areas under harshest environmental conditions.



### Technical data

Input	■ PROFIBUS PA	Failure current	■ 15 mA (10.5 mA +4.5 mA)
Physical layer	■ IEC 61158-2	Air supply	■ 1.4...6 bar
Transmission rate	■ 31.25 Kbit/s	Air capacity	■ 13 kg/h, 6.0 scfm
Protocol acc. to	■ DIN 50170, profile B for actuators	Ambient temperature	■ -40...+85 °C / -40...+185 °F
PNO Ident-No.	■ 0X0639	Housing	■ aluminium, IP65 (NEMA 4X)
Supply voltage	■ 9...32 V	Vibration immunity	■ 10g at 10...80 Hz
Basic current	■ 10.5 mA	Easy Set-up function	

### Ex-approvals

TZIDC-110/TZIDC-210 intrinsically safe  
 ■ ATEX Ⓢ II 2 G EEx ia IIC T6  
 FM/CSA pending

TZIDC-210 flameproof enclosure  
 ■ ATEX Ⓢ II 2 G EEx d IIC T6  
 FM/CSA pending

### Option modules

- 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)

# ABB

[www.abb.com](http://www.abb.com)

**ABB Automation Ltd.**  
 Salterbeck Trading Estate  
 Workington, Cumbria  
 CA 14 5DS  
 Tel.: +44 (0) 19 46 830 611  
 Fax: +44 (0) 19 46 832 661

**ABB Inc.**  
 125 E. County Line Road  
 Warminster, PA 18974  
 USA  
 Tel.: +1 215 674 60 00  
 Fax: +1 215 674 71 83

**ABB Automation Products GmbH**  
 Schillerstrasse 72  
 32425 Minden  
 Germany  
 Tel.: +49 (0) 571 830 16 91  
 Fax: +49 (0) 571 830 13 68