

► Safe small controllers PNOZmulti 2 – Safely monitor analog input signals

NEW



The product family for the configurable safe small controllers PNOZmulti 2 has been expanded to include an analog input module PNOZ m EF 4AI. It provides four independent safe analog current inputs. The inputs are suitable for connecting transducers or encoders with standardized current signals. Any measured variables such as pressure, temperature, fill level, distance, etc. can be safely recorded. Modules are available in the software tool PNOZmulti Configurator: Limit value and range monitoring can be parametrized with just a few clicks of the mouse. In addition, the analog measurement values in numerical quantities can already be scaled with any unit during the configuration. Arithmetic functions such as averaging, differential pressure calculation and similar facilitate the use for special applications. In combination with the visualization software PASvisu, analog values can be displayed and evaluated. The analog input module is suitable for many varied possible applications, in particular for the industries of process engineering and cable car and chair lift design.



Your benefits at a glance

- Safe and precise monitoring of process values:
to PL e, SIL CL 3
- Fast, simple project planning: new software blocks for input, feasibility, scaling and arithmetic functions
- Limit value and range monitoring can be parametrized
- Fast reaction times: Module program technology mIQ with decentralized processing in the module
- User-friendly diagnostics: Up to 6 analog values can be transferred to the fieldbus for each module
- Play it safe and use PNOZmulti 2 – the worldwide safety standard for all machine types



Configurable safe small controllers PNOZmulti 2 – Analog input module PNOZ m EF 4AI



PNOZ m EF 4AI

PNOZmulti
Configurator**Technical features**

- ▶ Expansion module for connection to the right of a base unit PNOZmulti 2 (PNOZ m B0 or PNOZ m B1)
- ▶ 4 independent safe analog current inputs, each input can be configured separately
- ▶ Current range: 4 ... 20 mA, measuring range: 0 ... 25 mA
- ▶ Resolution: 15 bit + sign bit
- ▶ Workspace monitoring in accordance with Namur NE 43 (range limits are freely configurable)
- ▶ Limit value/range monitoring (limit values freely configurable)
- ▶ Max. 12 expansion modules can be connected to PNOZ m B1, max. 6 to PNOZ m B0
- ▶ Safety-related characteristic data: Depending on the application, up to PL e in accordance with EN ISO 13849-1 and up to SIL CL 3 in accordance with EN IEC 62061
- ▶ Exact analog values can be passed on via fieldbus to a higher-level controller for diagnostic purposes. Visualization via the web-based software PASvisu.
- ▶ Dimensions (H x W x D) in mm: 101.4 x 22.5 x 120

Software tools

- ▶ Can be configured using the software tool PNOZmulti Configurator, Version 10.8.
- ▶ One separate module program (mlQ) with 256 connection lines can be configured for each expansion module. The user program consists of a main program and one or more module programs. The module program is set up like the main program and is configured in the same manner. The configuration of the analog module elements occurs directly in the module program. Processing is decentralized and occurs in the module.
- ▶ Demo software can be downloaded from the Internet (for registered users), information at www.pilz.com, webcode: 150399, Download.
- ▶ Purchasing a licence converts the demo software to a full version.

Order number

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| ▶ PNOZ m EF 4AI | 772 160 |
| ▶ 1 set of push-in spring-loaded terminals | 751 004 |
| ▶ 1 set of plug-in screw terminals | 750 004 |



Webcode:
web150500

Configurable safe small controllers PNOZmulti 2: Simple configuration of analog functions in the software tool PNOZmulti Configurator in a separate module program. Advantage: Fast project planning thanks to new software blocks for input, feasibility, scaling and arithmetic functions with fine adjustment of the values. Quick and easy commissioning is possible thanks to the dynamic program display.

Online information
at www.pilz.us