Product News

––

Seven connection-friendly digital module types

Bachmann electronic GmbH introduces intelligent I/O interfaces for the M100 system

Feldkirch, 23.10.06

Bachmann's M100 I/O system offers seven different types of digital I/O modules. This means that the M100 system can optimally meet the most diverse requirements for digital signal transmission.

Visually, a 2D-QR code on the display panel is noted at first glance. The 2D-QR code can be scanned with any commercially available smartphone or tablet or with industrial scanners. Device designation, part number, and serial number are immediately displayed. Then a webLink to an extensive information system enables one-click access to data sheet, wiring diagram, user manual or other information concerning the module.

The module types with single-core connection offer a maximum channel density of up to 24 channels per I/O slot. Sensor-specific cables can be directly connected on the modules with a two-core or three-core connection. This eliminates shunting, reduces wiring costs, and facilitates troubleshooting and maintenance.

Each I/O module has a highly accurate and synchronized clock that makes it possible to place the sampling time of the inputs and the consistent setting of multiple outputs, precisely and with optimal spacing relative to the fieldbus cycle. Fieldbus-sync sampling cycles to 100 µs and optional oversampling are possible.

Time stamps to 10 ns resolution enable precise differential time measurement and assessment of event sequences. For precise feed-forward controls or pre-triggers, the M100 outputs can also be switched at a defined point in time apart from the fieldbus cycle. Thus, a more exact process control and higher cycle times are possible, even at slower bus cycles.

All digital input modules have up to four counter units; this means that cost-intensive special counters or position-sensor modules are no longer needed for straight-forward counting tasks. Moreover, external contactors can be dispensed with for many applications in the lower power range: The PWM-capable digital outputs can be switched in parallel multiple times and this enabels multiplication of the switchable load currents.

Technical data of the M100 I/O modules

Number of channels:	24 / 12 / 8
Connection:	1-core / 2-core / 3-core per channel
Inputs:	IEC61131-2 Type 1/3
Outputs:	IEC61131-2 Type 0.5 and 2; can be connected in parallel
Functions:	Pulse stretching, counter, time stamp, PWM

Pictures

Picture 1:

The barcode on the modules of the M100-I/O system can be read-out with any commercially available smartphone. Through this means, in addition to basic information concerning the device, the user also easily obtains additional data, such as security information, technical data, and the user manual.

Picture 2:

The modules of the M100 I/O system are provided with a 2D-QR code. The 2D-QR code not only carries the information concerning device designation, part number, and serial number, it also refers the user to other data via a webLink.

all pictures: Bachmann

For more information visit:
https://www.bachmann.info/en/systemuebersicht/automatisierung/m100-i-o-system-1/digitale-ein-ausgangmodule

Bachmann electronic GmbH
Automation, grid measurement and protection, visualization and condition monitoring of plants and machines: This is the world of Bachmann. Headquartered in the Austrian town of Feldkirch and with more than 500 employees worldwide, Bachmann is an internationally aligned and strong-growth enterprise.
Robustness and reliability, these are the outstanding characteristics of the Bachmann solutions and to ensure these characteristics, every module is subjected to 100 % testing, plus a 48-hour run-in test. The intelligent, scalable technology is based on over 50 years of experience in the field of integrated engineering.
https://www.bachmann.info/

Press contact:
Bachmann electronic GmbH, Bochum Office
Frank Fladerer
Konrad-Zuse-Straße 3
44801 Bochum, Germany
Tel.: +49 234 932598-3029
Email: frank.fladerer@bachmann.info