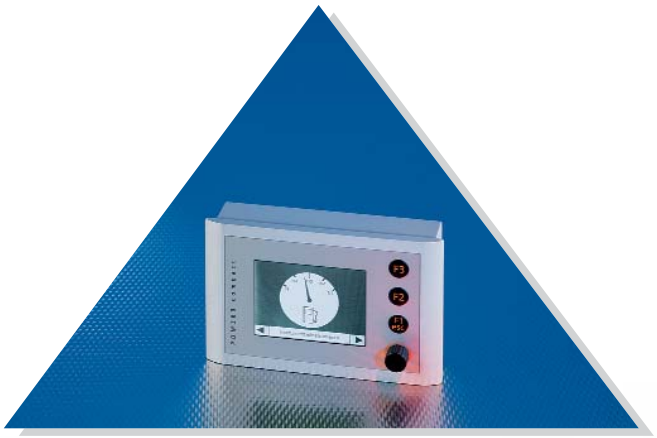
product news

ifm electronic

Control systems

Process and dialogue monitor PDM360 compact.



ecomat mobile

Graphic display for operation and parameter setting of mobile machines.

- 3.8" display with 3 function keys and encoder with pushbutton.
- M12 connector for quick and safe wiring.
- Closed robust metal housing for surface and panel mounting.
- Freely programmable to IEC 61131-3 with target visualisation.
- CANopen interfaces with CANopen protocol.

e1 | IEC 61131-3 | IP 67 | CANopen

PDM360 compact

In almost all mobile machines a powerful dialogue unit is needed for machine operation and showing system messages. The PDM360 compact is such a user interface. With its powerful 32-bit controller and flexible programming to IEC 61131-3 it can be used in almost all applications. Its robust IP 67 housing enables surface and panel mounting outside and in the cabin.

Communication with the other system components in the machine is made via the CAN bus using the CANopen protocol.

The additional Ethernet and RS-232 interfaces as well as the optional inputs and outputs together form a platform for further networking and communication with other units.

fluid sensors and diagnostic systems

position sensors and object recognition

bus, identification and control systems

Products

Description	Order no.
Dialogue unit PDM360 compact, monochrome with Ethernet interface	**CR1055**
Dialogue unit PDM360 compact, monochrome with Ethernet interface 2 I and 2 O, realtime clock	**CR1056**
RAM mount mounting plate	**EC1410**
RAM mount mounting arm, short (90 mm)	**EC1411**
RAM mount mounting arm, standard (144 mm)	**EC1412**
RAM mount mounting arm, long (231 mm)	**EC1413**

Functions and advantages

- **Mechanical set-up**

  The PDM360 compact has a completely sealed diecast zinc housing with the protection rating IP 67. The integrated M12 connectors provide all important connections for supply and communication. The robust, tried-and-tested RAM mount system can be used for surface mounting.

  The freely programmable backlit operating elements can be directly used to control the PDM360 compact or the application.

- **32-bit controller**

  The integrated 32-bit controller and the operating system are the basis for the graphic display and the processing of the menu and device functions.

- **Extended functionality**

  Optionally, the PDM360 compact is fitted with an Ethernet interface for programming and communication, as well as 2 inputs and 2 outputs. Furthermore, the integrated real time clock (CR1056) can be used, for example for logging operating data.

- **Programmable to IEC 61131-3 with CoDeSys**

  Programming using the standardised IEC 61131-3 languages enables clear and simple generation of the application software for the user. Function libraries are available for the special functions of the display. The graphic elements are created and animated via the integrated visualisation.

- **CANopen interface with CANopen protocol**

  The PDM360 compact is fitted with a CAN interface to ISO 11898. Via this interface data is exchanged with the connected controller and the decentralised inputs and outputs.

  The CANopen protocol enables quick and flexible connection to the bus.

Common technical data

PDM360 compact		
Housing		diecast zinc, powder coated
Housing front		mineral glass with laminated front film
Device connection M12 connector		for supply, CAN, RS-232 and Ethernet, additional I/O as an option
Protection rating		IP 67
Operating voltage	[V DC]	10...32
Power consumption	[VA]	< 4 without external load
Temperature range (storage / operation)	[°C]	-20...70 / -20...70
Display		3.8", 1/4 VGA 320 x 240 pixels, FSTN transflective LED background illumination
Operating elements		3 short-stroke keys, illuminated 1 encoder / pushbutton
Digital inputs / outputs, realtime clock (opt. CR1056)		2 I / 2 O
Max. switching current of the outputs	[mA]	500
Interfaces		CAN (ISO 11898 V 2.0) RS-232 Ethernet 10 Mbits
Protocol		CANopen (CiA DS 301 V4) profile DS 401
Flash program memory	[MByte]	8
SRAM data memory	[MByte]	16
Programming software		CoDeSys V2.3
Standards and tests (selection)		CE, e1 (RL 95/54/EC), approval for railway applications (EN 50155)

Connectors and splitter boxes

Type	Description	Order no.
	M12 socket, 5-pole, 2 m for CAN and supply voltage	**E11596**
	M12 cable plug, 5-pole, 2 m for CAN, RS-232 or I / O	**E11598**
	Ethernet connection cable, M12 connector D coded, RJ45 (cross-link)	**E11898**