DP102N

10.2" display for panel mounting

DP102N is a panel computer intended for mounting in, for example, a cabinet door. It can easily be connected to Regin's EXOscada system and to controllers with integrated web server.

Regin's 10.2" display for panel mounting consists of a touch screen monitor with an integrated PC. The PC comes pre-installed with Windows 8.1 Pro, 64-bit. It can be connected to systems running EXOscada, EXO4, CLOUDigo or to Corrigo controllers with integrated web server without any further installations being required. After installing EXOscada, DP102N can also be used as a main computer for Regin controllers.

Hardware for panel mounting is included on delivery. DP102 is constructed entirely without any fans.

Dust-resistant and waterproof front panel
The front panel has protection class IP65, guaranteeing the display to be resistant against demanding environments, dust-resistant and waterproof.

Applications
When the panel computer is connected to a TCP/IP network it can be used as a graphical display, either for a Corrigo controller with web server or for EXOscada, EXO4 or CLOUDigo.

For maximum operational reliability, DP102N should be configured as "Display for Regin controllers". When using this application, the display will function even if communication with the main computer is not available. The main computer will also continue to work even if it fails to communicate with the panel computer. This application is advantageous in small projects, since an EXO4 hardware key is not required for projects with less than 75 inputs/outputs.

DP102N can also be configured as "Additional main computer". This application is selected when requiring maximum performance for larger projects. Unlike the application "Display for Regin controllers", the main computer will in this case be unable to reach controllers connected to DP102N if the main computer fails to communicate with the panel computer.

Short facts about DP102N

- **Display for EXOscada, EXO4, CLOUDigo and Corrigo with integrated web server**
- **Resistant in demanding environments**
- **Can be used as an extra communication server, e.g. as a TCP/IP master, after installation of EXO4**
- **Can be used as an EXOscada/EXO4 main computer or a work station via a network**

DP102N can also be configured to "EXOscada / EXO4 main computer". This application provides full functionality. It is recommended that a maximum of 10 controllers be connected to the panel computer, both when configured as "EXOscada / EXO4 main computer" and as "EXO4 additional main computer".

When the panel computer is configured to "TCP/IP master", it is used to transfer values between a maximum number of 10 TCP/IP controllers within a system.

The application cases are described in detail in the manual "Panel and embedded computers in EXO systems".

Configuration
In order to change settings in Windows, create shortcuts etc., it is recommended a USB keyboard and mouse are connected to DP102N.

In order to install EXOscada / EXO4, a network connection is required through which the installation files can be reached using the same network login information as for the panel computer. Otherwise, a USB flash drive or similar device may also be used.

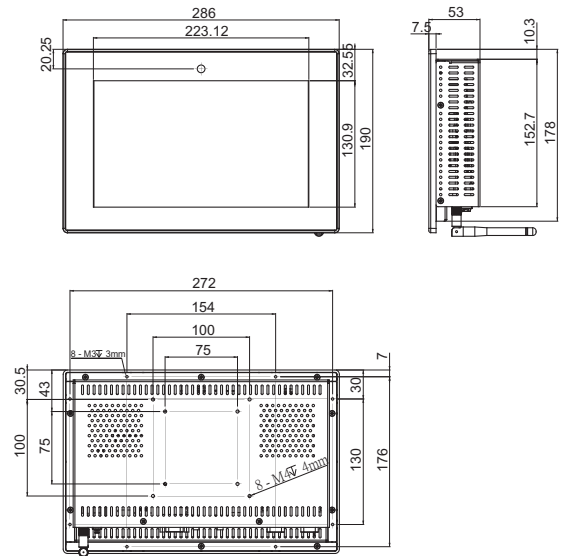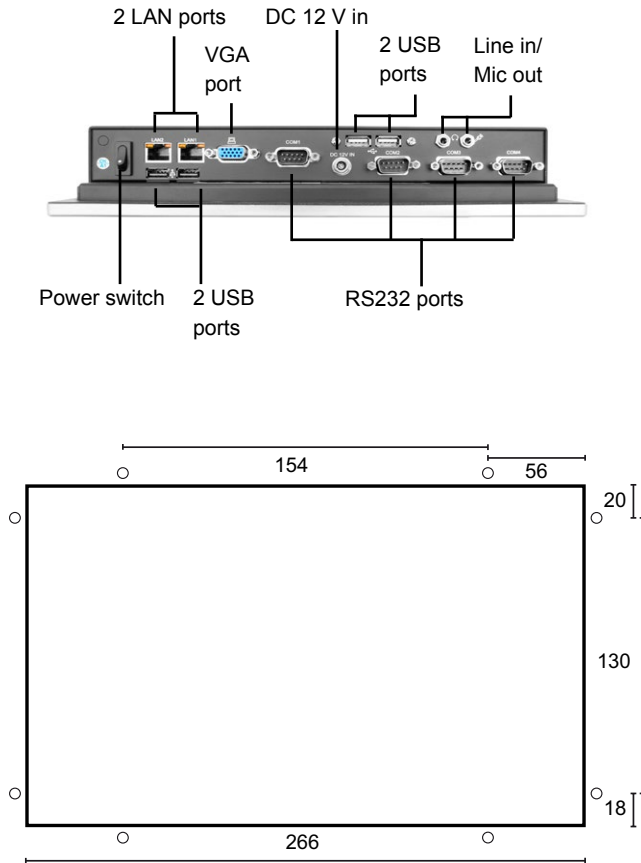When logging on, the on-screen keyboard is available, enabling the use of passwords if required.

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Technical data

Screen size	10.2"
Resolution	1024 x 600
Brightness	400 cd/m²
Picture contrast ratio	400:1
Number of colours	262 K
Backlight	LED
CPU type	Intel® Atom™ E3845 (2M Cache, 1.91 GHz)
SSD storage space	64 GB
RAM	4 GB, DDR3L on-board
Ports	4 x COM ports (RS232), 4 x USB ports, 2 x LAN ports (Intel GbE)
VGA port	Yes
Audio	Line in/Mic out
Operating temperature	-20...60°C
Relative operating humidity	5...90 % at 39°C, non-condensing
Protection class	IP65
Material	Front panel in plastics and aluminum
Mounting	Cabinet mounting (screws included), VESA 75 / 100 (ordered separately)
Supply voltage	Power supply unit for 12 V DC (2.5 A) included upon delivery
Weight	2.5 kg
External dimensions, computer (HxWxD)	45.5 x 265.4 x 167.7 mm
External dimensions, display (HxWxD)	7.5 x 286 x 190 mm
CE	**EMC emissions & immunity standards:** This product conforms to the requirements of the EMC directive 2004/108/EC. **RoHS:** This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

Wiring and dimensions

Mounting holes

Measurements in mm.

Power supply unit

Product documentation

Document	Type
Panel and embedded computers in EXO systems	Manual containing information about applications for DP102N

The product documentation is available on Regin's ftp-server. It is intended for our system customers, who need to share files with us, e.g. at technical support. Contact one of our sales engineers for access via your own password.

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