DP102

10.2" display for panel mounting

DP102 is a panel computer intended to be mounted in
for example a cabinet door. It can easily be connected to
Regin's EXO4 Web Server and Regin's controllers, with
or without integrated web.

- **Interface towards EXO4 Web Server and Regin's controllers**
- **Resistant in harsh 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 EXO4 main computer or a work station via a network**

Regin's 10.2" display for panel mounting consists of a
touch screen monitor with an integrated PC. Windows
XP 2002 Service Pack 2 and Internet Explorer 6 are
pre-installed on the PC. DP102 can be connected
to systems with EXO4 Web Server or Corrigo Web
controllers, without additional installation. After
installation of EXO4, DP102 can also be used as an
EXO4 computer for Regin controllers without integrated
web.

The display is resistant in harsh environments. The
front panel has protection class IP65, guaranteeing that
it is dust-resistant and waterproof. Hardware for panel
mounting is included in the delivery. DP102 is not
equipped with a fan, since a fan is not required.

Applications

When the panel computer is connected to a TCP/
IP network, it can be used as a graphical display for a
Corrigo Web controller and an EXO4 Web Server.

For maximum operational reliability, DP102 should be
configured as a *Display for EXO controllers*. When using
this application, the display will work even if there is
no communication with the main computer. 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 a hardware key is
not required for projects with less than 75 I/Os.

The panel computer can also be configured as an *EXO4
additional main computer*. This application is selected
when maximum performance is required for large
projects. In this case, unlike the application *Display for
EXO controllers*, the main computer will not be able to
reach controllers connected to DP102 when the main
computer fails to communicate with the panel computer.

DP102 can also be configured as an *EXO4 main computer*.
This application gives full EXO4 functionality. Both as
an *EXO4 main computer* and an *EXO4 additional main
computer*, a maximum of 10 controllers can be connected
to the panel computer.

When the panel computer is configured as a *TCP/IP
master*, it is used to transfer values between up to 10
TCP/IP controllers in a system.

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

Configuration

In order to make settings in Windows, create shortcuts
etc., we recommend that you connect a USB keyboard to
DP102. Connecting a computer mouse will also simplify
configuration.

In order to install EXO4, you must be connected to a
network from which the installation files can be reached
using the same access information for the network as for
the panel computer. Otherwise, you can use a USB flash
drive or similar.

Since the monitor keyboard cannot be used when
Windows is not running, the panel computer must be
configured to automatically log on to Windows.

For proper function, the resolution of the DP102 monitor
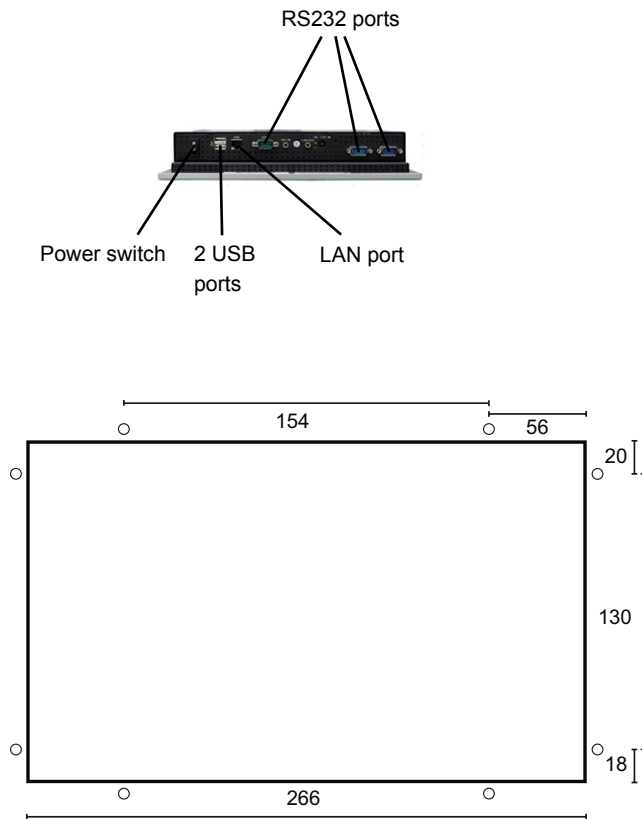should be 1024 x 600.

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Technical data

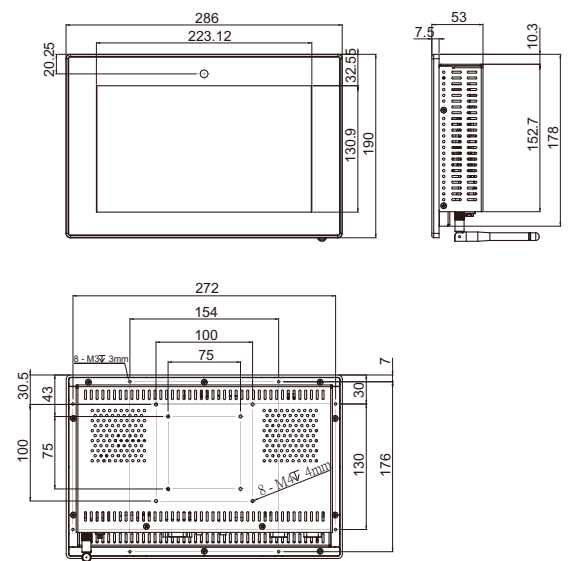|	
Monitor size	10.2"
Resolution	1024 x 600
Brightness	220 cd/m²
Contrast ratio	400:1
Number of colours	262 K
Backlight	LED
CPU type	Intel Atom N270 1.6 GHz
Flash memory	8 GB
RAM	1 GB
Ports	3 x COM ports (RS232), 2 x USB ports, 1 x LAN port (Realtek RLT8111C 10/100/1000 Mbps)
Operating temperature	0...45°C
Relative operating humidity	5...90 % at 39°C, non-condensing
Protection class	IP65
Material	Front panel in plastics and aluminium
Mounting	Cabinet mounting, VESA 75 / 100 (screws included)
Supply voltage	Power supply unit for 12 V DC (2.5 A) included in the delivery
Weight	1.3 kg
External dimensions, computer (DxWxH)	45.5 x 265.4 x 167.7 mm
External dimensions, display (DxWxH)	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 with the Directive 2011/65/EU of the European Parliament and of the Council.

Wiring and dimensions

RS232 ports

Power switch   2 USB ports   LAN port

286
223.12
20.25
32.55
130.9
190

53
7.5
10.3
152.7
178

272
154
100
75
8 - M3 3mm
30.5
43
100
75
8 - M3 4mm
7
30
130
176

154   56
20
130
18
266

Mounting holes

Measurements in mm.

Power supply unit

Product documentation

Document	Type
Panel and embedded computers in EXO systems	Manual with information about application cases for DP102

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.

Head Office Sweden
Phone: +46 31 720 02 00
Web: www.regin.se
Mail: info@regin.se

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