



- › Touch screen graphic display for the WP4x00 Control Concept
- › 15" TFT with 1024 x 768 resolution, 16 bit colours
- › USB Port in front
- › Quick and reliable survey of functions and data in the wind turbine
- › Maximum user comfort via the HMI principle
- › User-friendly menu structure
- › Designed for easy mounting
- › Pressure sensitive touch screen; responds to finger, gloved hand or pen

The WP4x00 MK II Control Concept

The WP4052 Graphic Color Touch Screen Display is used with the WP4x00 Control Concept and provide access to the wind turbine. The WP4x00 Control Concept has been specially designed to control large wind turbines - on- and offshore. The WP4x00 Control Concept ensures optimal operation, high security, and advanced data collection.

The concept typically consists of a power supply/backbone module, a WP4x00 controller, a grid measurement module as well as an analog/digital I/O module dependent on the specific configuration task. The WP4x00 Control Concept makes it possible to have redundant solutions. The concept is constructed as a plug-and-play system with automatic module detection and error reporting.

The WP4052 Touch Display

A touch screen with the possibility of on screen keyboard and a display with resolution of 1024 x 768, 16 bit colours. Operating system with WEB browser for fast and user-friendly operation. The panel is mainly designed for panel mount application. It is also possible to connecting more displays per controller.

Furthermore, the WP4052 display offers:

- › Ethernet system connection
- › USB port in front
- › Sleepmode/screen saver

- › Condensation and salt resistant
- › Degree of protection IP55
- › User-friendly 3 LED status
- › Maintenance free (no fan or battery)
- › Fast response time, 1.6GHz processor

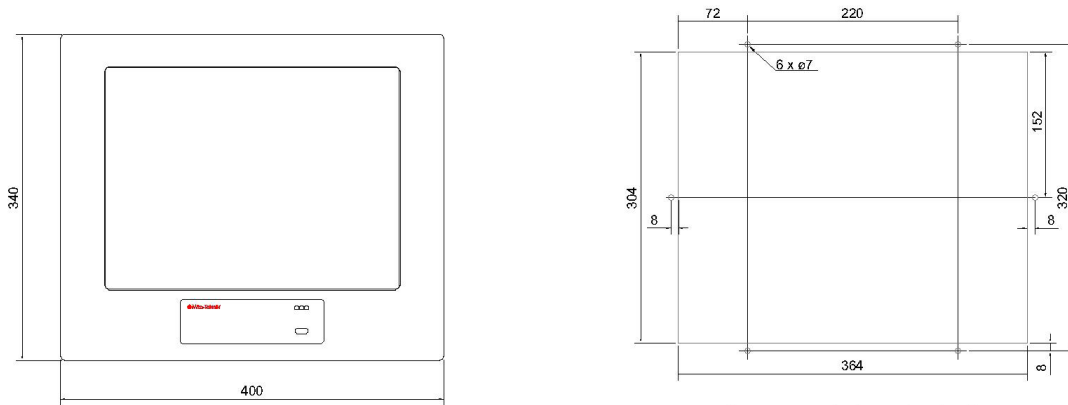
Cold Climate Version

The WP4052 is also available in a cold climate version with internal heater for cold climate operation.

Access and Maintenance

Second to none control of wind turbines. Software maintenance even while the wind turbine is running - by use of JAVA applets from the WP4x00 controller.

Mounting Measurements



Recommended panel cut out

Technical Data

External Supply Voltage	
Typical	24 VDC
Maximum	19 to 30 VDC
Current Consumption (External 24V Supply) Basic Version	
Typical	1.0 A
Maximum	1.3 A @19 VDC
Current Consumption (External 24V Supply) Cold Climate Version (Ambient temperature > 0 °C)	
Typical	1.0 A
Maximum	1.3 A @19 VDC
Current Consumption (External 24V Supply) Cold Climate Version (Ambient temperature < 0 °C)	
Typical	4.3 A
Maximum	5.0 A @ 30 VDC
Module Power Dissipation (Without Active Heating Element)	
Typical	24 W
Display	
Size	15 "
Resolution	1024 x 768
Colour resolution	16 bit
Start-up Time, Basic Version	
Maximum	75 sec.
Start-up Time, Cold Climate Version	
Ambient temperature > 0 °C	75 sec.

Technical Data

Ambient temperature < 0 °C	< 30 min.
Ethernet RJ45 Communication Port	
Communication speed	10/100 Mbit/s
Max. cable length	50 m
Permissible Ambient Conditions	
Operation temperature	
<i>Basic version</i>	
<i>Front (Outside control panel)</i>	-30 to +60 °C
<i>Back (Inside control panel)</i>	0 to +60 °C
<i>Cold climate version</i>	
Transportation/Storage temperature	-40 to +85 °C
Max. relative humidity	Max. 95% RH (non-condensing @ 40 °C)
Max. operation height	2000 m. above sea level (higher levels only by special agreement with Mita-Teknik)
Construction	
Dimensions (WxHxD)	400 x 340 x 72 mm
Cutout Dimensions (WxHxD)	364 x 304 x (62) mm
Weight	4.50 Kg
Degree of Protection	
Degree of protection (front)	IP55
Degree of protection (back)	IP20
Standards	EN61000-6-2 (CE) EN61000-6-4 (CE) EN61000-4-5 (Surge)

Mita-Teknik Ordering Information

Order Number	Order Name
978405201	WP4052 Touch Display - Basic Mita-Teknik
978405202	WP4052 Touch Display - Cold Climate Mita-Teknik
Accessories	
3389210	Ethernet Patch Cable RJ45, STP, Grey, 1.0 meter
3389220	Ethernet Patch Cable RJ45, STP, Grey, 2.0 meter
3389250	Ethernet Patch Cable RJ45, STP, Grey, 5.0 meter