



- › Touch Screen Graphic Display for the Mita-Teknik Control System
- › 7" TFT with 800 x 480 resolution, 16 bit colours
- › USB Port
- › Front panel IP66 compliant
- › 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

The WP4053

The WP4053 Graphic Color Touch Screen Display is used with Mita-Teknik Control System and provides access to the wind turbine. The display is compatible with WP4x00, WP100 and WP3x00 MK II Control Platforms. It gives possibility to start/stop the wind turbine, gives access to diagnostic information, parameters changing and troubleshooting. It is perfect solution for cost-optimized systems and where size of the display is one of the crucial factors. It's also provided with an industrial operating temperature range to fulfil the requirements of harsh environments.

Features

A touch screen with the possibility of on screen keyboard and a display with resolution of 800 x 480, 16 bit colours. LINUX operating system with WEB browser for fast and user-friendly operation. The panel is mainly designed for panel mount application. Possibility of connecting more displays per controller. ETHERNET system connection. USB Port on back side.

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 Mita-Teknik controller.

Technical Data

System Hardware	
CPU	RISC 32 bits, 600 MHz (ARM® Cortex™-A8)
Backup memory	FRAM 1M bit (=128K Byte, 64word)
Memory	DDR2 256MB on board
Storage	1GB on board SLC type
Power-On LED	Yes
Communication Interface	
Ethernet (RJ45)	10/100-BaseT
I/Os	USB Host: USB 2.0 Host x 1
LCD Display	
Display type	WVGA TFT LCD
Display size	7"
Max. resolution	800 x 480
Max. colors	64K
Luminance (cd/m2)	500
Viewing angle (H/V)	140/120
Backlight life	LED, 50.000 hrs
Contrast ratio	700:1
Touchscreen	
Lifespan	36 million touches at 8mm diameter finger point through silicone rubber bearing at least 250g 2 times per second.
Light	Transmission above 80%
Resolution	Linearity
Type	5-wire, analog resistive
External 24V	
Required voltage	24VDC ±10%
Typical	0.29A @ 24VDC (Power supply must be able to deliver minimum 0.4A)
Module Power Consumption	
Power consumption	7W (Typical)
Permissible Ambient Conditions	
Operating temperature	-30 to +60°C
Storage temperature	-40 to +70°C
Relative humidity	10 to 90% RH (non-condensing @ 40°C)
Mechanical Information	
Weight (Net)	1 kg
Dimensions (WxHxD)	203.4 x 150 x 43.7 mm
Cut-out dimensions	192 x 138.5 mm
Enclosure housing	PC + ABS
Mounting	Panel
Degree of protection	Front panel: IP66

Specifications subject to change
 MT_WP4053_DataSheet_R5_0

Technical Data

Applied Standards	
Certifications	CE, BSMI, CCC, UL, FCC Class A
Vibration	Operating, random vibration 1 Grms (5 - 500 Hz)
IEC	IEC 60068-2-6:2007 Standard rural electrification Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)
EMC	EN 61000-6-2 (Immunity standard for industrial environments) EN 61000-6-4 (Emission standard for industrial environments)

Mita-Teknik Ordering Information

Order Number	Order Name
978405301	WP4053 Touch Display

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
7980775	Adapter Plate WP3050/WP4059 to WP4053 Display