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 fulfill 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.

› 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
### 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**: -20 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

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Technical Data

### Applied Standards

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<tr>
<th>Certifications</th>
<th>CE, BSMI, CCC, UL, FCC Class A</th>
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<tr>
<td>Vibration</td>
<td>Operating, random vibration 1 Grms (5 - 500 Hz)</td>
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<td>EMC</td>
<td>EN 61000-6-2 (Immunity standard for industrial environments)</td>
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### Mita-Teknik Ordering Information

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