

**MMI-MT8000iE Series HMIs**

The XD-Indexer interfaces with ORMEC’s MMI-MT8000iE series of flat panel touch screens. Two compact and economical options are the MMI-MT8050iE and MMI-MT8070iE which have diagonal screen sizes of 4.3” and 7.0” respectively. These screens are color TFT LED displays.

Displays present machine functions such as:

- setup
- maintenance
- product run changes
- operational status
- operational control
- fault conditions

These easy-to-use graphical operator displays provide alerts for machine alarms and status conditions.

Operator control can be built into the MMI-MT8000iE representing a conventional factory operator panel, without additional bulky hardware, I/O modules and wiring.

Each individual display can be designed and built quickly using the “drag and drop” graphical objects found in the EasyBuilder Pro application development utility.

The HMI panels have on-board non-volatile memory and an optional flash memory card. These are used for storage and retrieval of both machine set-up parameters and product recipes.

Each MMI-MT8000iE unit is shipped with EasyBuilder Pro development software. The latest version of the EasyBuilder MT8000iE software is available for download from the ORMEC web site, [www.ormec.com](http://www.ormec.com)



ORMEC’s touch screen operator interfaces provide a fully graphical, easy-to-use human-machine interface.

**Operation**

Communication with an ORMEC XD-Indexer is through Ethernet using Modbus/TCP.

Screen objects are assigned to registers in the Indexer and can display current values from the servo drive. They can also be used to set

values in the drive’s registers for motion parameters, triggering motions from the motion table, jogging the motor, homing the motor, turning on drive outputs, clearing fault conditions, and more.

**Ordering Guide**

**Operator Interface Terminals**

MMI-MT8050iE*	4.3" diagonal, 480w x 272h pixels, TFT Color, Ethernet
MMI-MT8070iE*	7.0" diagonal, 800w x 480h pixels, TFT Color, Ethernet

*Each Operator Interface unit includes EasyBuilder 8000 development software and Ethernet crossover cable.*

*\* 16 x 9 wide screen format.*

**Ethernet Cables and Accessories**

EISK5-100T	Ethernet Switch, 100BASE-T, 5 port, 24 VDC input, DIN rail mount
CBL-ENET/x	Cable, Ethernet, RJ45, 3,7,10,25,50,75, & 100 ft
CBL-ENETX/x	Cable, Ethernet, crossover, RJ45, 3,7,10 & 25 ft

**Development Software**

Easy Builder Pro included and downloadable.

### Graphical Panel Objects

- Pilot Light (Bit Lamp)
- Word Lamp
- Force Coil (Set Bit)
- Write Register (Set Word)
- Toggle Switch
- Multi-State Switch
- Function Key
- Numeric Input
- Numeric Display
- ASCII Data
- ASCII Display
- Moving Shape
- Animation
- Indirect Window
- Direct Window
- Alarm Display
- Trend Display
- XY Plot
- Bar Graph
- Meter Display
- Alarm Bar
- Recipe Upload/Download
- Event Display

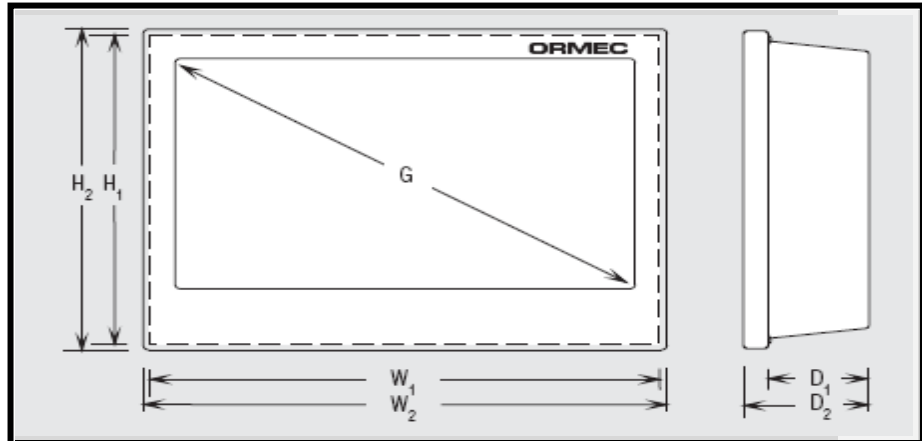
### LED Indicators

Each MMI-MT8000iE unit has three status indicator LEDs to assist with installation and troubleshooting.

**PWR** - Indicates the unit has power.

**CPU** - Indicates that the processor is operating properly.

**COM** - Flashes during Ethernet communications.



	Dimension	MT8050iE	MT8070iE
<b>Mounting &amp; Cutout</b>	<b>G</b>	4.3" 109 mm	7.0" 178 mm
	<b>H1</b>	3.60" 91 mm	5.34" 136 mm
	<b>W1</b>	4.63" 117 mm	7.46" 0
	<b>D1</b>	1.27" 32 mm	1.05" 27 mm
<b>Overall</b>	<b>H2</b>	4.02" 102 mm	5.76" 146 mm
	<b>W2</b>	5.04" 128 mm	7.89" 200 mm
	<b>D2</b>	1.51" 38.25 mm	1.34" 34 mm

### Mounting & Sealing

MMI-MT8000iE units are cabinet mounted, and feature a gasket and four or six mounting brackets to maintain a NEMA 4 rating.

### CE Mark

All MMI-MT8000iE units are CE Marked, indicating compliance with European Union directives EN 55081-2 and EN50082-2.

## General Specifications

<b>Touch panel type</b>	Resistive	<b>Temperature</b>		<b>Weight</b>	
<b>Color Type</b>	TFT 65536 color	<i>Operating</i>	0C to 45C	<i>MMI-8050</i>	.66 lbs (0.3 kg)
<b>Display Resolution</b>		<i>Storage</i>	-10C to 60C	<i>MMI-8070</i>	1.3 lbs (0.6 kg)
<i>MMI-MT8050iE</i>	480w x 272h pixels	<b>Relative Humidity</b>			
<i>MMI-MT8070iE</i>	800w x 480h pixels	<i>Operating</i>	10% to 90% non-condensing		
<b>Installation</b>		<i>Storage</i>	5% to 85% non-condensing	<b>Input Power</b>	24 Volt DC +/- 5%
<i>All sizes</i>	Cabinet mount	<b>Enclosure Ratings</b>		<i>MMI-MT8050iE</i>	250 mA
<b>Vibration</b>	10 to 25Hz 2Gs on each x, y, z plane for 30 min.	<i>NEMA 4/IP65 front panel (O-ring seals).</i>		<i>MMI-MT8070iE</i>	350 mA
		<b>EMI</b>			
		<i>Complies with FCC Class A</i>			
		<b>CE</b>			
		<i>Complies with EN50081-2 and EN50082-2</i>			