MMI-730T

Features
• Bright 5.6" TFT 256 Color Display
• Analog Touch Screen Interface
• Connects to PLC's via Single Cable to Programming Port
• FREE Design Mode, Windows™ based Setup Software Included
• Intel® Xscale PXA255 200MHz processor
• Built-in Recipe memory and Real Time Clock

LCD with Touch Panel
The MMI-730T is a touch screen interface for programmable controllers. No special PLC programming is required for data access. The unit displays pictorial information, data and messages that are preloaded into it using a Personal Computer. Touch screen areas can be programmed to perform various functions. Free setup software for configuring the MMI-730T is included with each unit. The Easy Builder Screen Editor offers fast and intuitive configuration. This simplifies application design while reducing development costs. The MMI-730T is rated NEMA4/IP65 from the front when mounted properly. It is designed for industrial working environments.

Connect directly to most PLCs
The MMI-730T uses each PLC's communication protocol to read or write data. It supports RS232 and RS485 for direct connection to PLCs with a single cable. It does not require the PLC to run any special program for data communication. This allows the unit to be used with existing systems. If desired, the unit can be programmed to work in conjunction with the PLC, responding to PLC commands. This brings out the PLC's full potential and improves operator efficiency. The MMI-730T allows the user to optimize communications by selecting the data block size that is uploaded with each communication to the PLC. The EasyWindow utility provided with EasyBuilder is used to further monitor and tweak PLC communication efficiencies.

Partial list of PLC Drivers
More supporting device drivers are being developed every day.

Allen Bradley DF1
Allen Bradley DH485
Crouzet XC03
DELTA DVP
EMERSON EC20
ENTERTRON MODBUS RTU
FACON FB
Fuji NB Series
GE FANUC SNP-X
HITACHI EH-150
IDEC Micro3
IDEC OpenNET
INDUSTRIAL INDEXING SYSTEMS, INC.
Jetter Nano
Keyence KV-16DT
KOYO Direct
Lenze
LG GLOFA Cnet
LG Master K
Matsushita FP (Aromatic/Panasolic)
MITSUBISHI A Series
MITSUBISHI F Series
MITSUBISHI J2
MODICON MODBUS RTU
MODBUS RTU TCP/IP
OMRON
SAIA PCD
Samsung SPC-10
Sharp JW Series
SIEMENS S7-200
SIEMENS S7/300
SIMATIC TI505
Telemecanique Unidelway
Toshiba T Serial
VIGOR M Series
Yokogawa PLC Series

General Specifications
Input power 23-25 VDC, 500 mA @ 24VDC
CE Complies with EN50081-2 and EN50082-2 standards
EMI Complies with FCC Class A (Ferrite core required when using unshielded power supply wires)
Isolation resistance Exceeds 50 MΩ at 500VDC
Vibration endurance 10 to 25 Hz (X,Y,Z direction 2G 30 minutes)
Protection structure NEMA 4 / IP65 front panel (when mounted with gasket seal)
Temperature Operating: 32 to 113 °F (0 to 45 °C); Storage: -13 to 158 °F (-25 to 70°C)
Operation humidity 10 to 90% RH Non Condensing
Enclosure Plastic: Polybutylene Terephthalate (PBT) and Polycarbonate(PC)

Hardware Specification 730T/730T-E
LCD Display 5.6" TFT 256 color
Contrast Ratio 150:1
Brightness cd/m2 500
Back light CCFLx1, MTBF 30,000 hr
Resolution pixels 320(W) x 234(H)
Viewing Angle Top 20°; Bottom 40°; Right 50°; Left 50°;
Pixel size 0.118(W) x 0.362 (H) mm
Display area (mm) 120(W) x 90(H)
Touch panel 4 wire analog resistive type
Touch granularity 1.5mm grid
Touch Feedback Beeper and or Graphic Indicator
Surface hardness 4H
Processor 32 bit RISC PXA255 200MHz
Flash Memory 2MB flash ROM
Compact Flash Slot (-E Option) Used for project transfers only
System Memory 4MB DRAM
Battery Held Memory 128kB with Y2K compliant Real Time Clock/Calendar
Serial ports 1 RS-232 (Controller port), 1 RS-485 (Controller port) and 1 RS-232 485 (PC port)
Ethernet port (-E Option) RJ-45, 8 wire (10 BaseT) TCP/IP
System diagnostic Watch dog timer, power failure detection
Dimensions H x W x D inches (H x W x D) mm
Bezel: 5.90 x 8.00 x 2.00 (150 x 204 x 48 )
Cutout: 5.43 x 7.56 (138 x 192 )
Weight Approx. 1.9 lbs. (0.85 kg)
EasyBuilder Software Specification

<table>
<thead>
<tr>
<th>Screen editor</th>
<th>EasyBuilder Version 2.7.0 or later (requires Windows 98 / ME / 2000 / XP)</th>
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</thead>
<tbody>
<tr>
<td>No. of window</td>
<td>1 ~ 1999, limited by memory</td>
</tr>
<tr>
<td>No. of object</td>
<td>Up to 500 per window, limited by memory</td>
</tr>
<tr>
<td>Text strings</td>
<td>limited only by memory</td>
</tr>
<tr>
<td>Bitmap graphics</td>
<td>256 KB per graphic, limited by memory</td>
</tr>
<tr>
<td>Support PLC</td>
<td>Most popular PLC’s</td>
</tr>
<tr>
<td>Macro scripts</td>
<td>Up to 256 Macro scripts per project, limited by memory</td>
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Computer requirements include at least a Pentium 90Mhz PC, 16MB RAM, 10MB available hard disk space, minimum 800x600 resolution VGA, and one available RS-232 serial port.

EasyBuilder has a complete set of drawing tools as well as the ability to import and place bitmaps. Summary of EasyBuilder Objects

- **Bit Lamp** – Place an indicator that is bit triggered
- **Word Lamp** – Place an indicator that is word triggered
- **Set Bit** – Set a bit on a button press, button hold, window change, backlight activation or data entry.
- **Set Word** – Set a word on a button press, button hold, window change, backlight activation or data entry.
- **Toggle Switch** – Toggle a bit
- **MultiState Switch** – Increment/Decrement a word
- **Function Button** – Perform a system operation
- **Numeric Input / Display** – Change/Display digital data
- **ASCII Input / Display** – Change/Display alphanumeric data
- **X,Y Move Animation** – Move an object via pixel coordinates
- **Spot Move Animation** – Move an object on a predefined path
- **Direct Window** – Popup Window on Bit status change
- **Indirect Window** – Popup Window depending on Word’s value
- **Alarm Display** – display predefined text strings in response to bit changes
- **Trend Graph** – Plots active data on a trend
- **XY Plot** – Plots active data on a grid BarGraph
- **Meter** – Display one of 4 different types of meters
- **Scrolling Alarm** – display predefined text strings in response to bit changes
- **Event Display** – display and log predefined text strings in response to bit or word changes
- **Recipe Transfer** – move data to and from the PLC

**PLC Controls:** Change window, Backlight control, Macro Execution, Data Transfer

Ordering Information:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>MMI-730T</td>
<td>Graphic Interface with 5.6” Color LCD display and Touchscreen, Real Time Clock. Replaces MMI-720</td>
</tr>
<tr>
<td>MMI-730T-E</td>
<td>Graphic Interface with 5.6” Color LCD display and Touchscreen, Real Time Clock with Ethernet and Compact Flash options. Replaces MMI-750 and MMI-750T</td>
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