# e M T

*SERIES*

3000

*Professional In Human Machine Interface*

WE!NTEK

# eMT3000 SERIES

## Highest Standards · Aesthetic Appeal · Sturdy Aluminum Casing

- The high-speed 600/800 MHz microprocessor has an outstanding data processing architecture that enhances communication throughput and graphic display functionality to perform complicated animations and multi-page switching without delay
- Employs a sturdy aluminum casing
- Vivid screens including a new 12" 1024 by 768 pixel TFT display
- CANopen protocol support
- Isolation in 24VDC input
- Isolation in RS485/CAN bus
- Accurate and reliable touchscreens with a guaranteed lifespan of one million continuous key presses
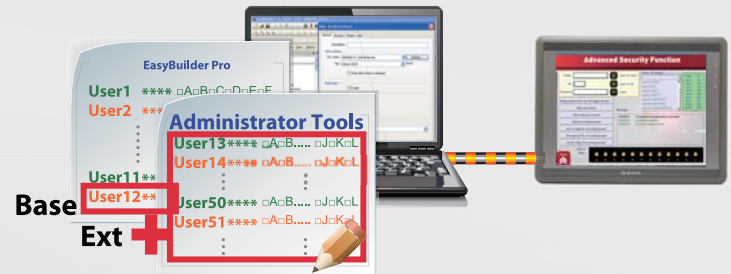- Industrial-Grade construction
- Aesthetically appealing

## ☐ Enhanced Account Management

● Add/Delete Accounts
● Modify Privileges
● Reset Passwords

### Account Management

| | |
|---|---|
| Add a new account | Set privilege for an existing account |
| Add a temporary account | Set password for an existing account |
| Delete an existing account | Get privilege of an existing account |
| | Import user accounts |

Message

19:33:03    Command successfully executed

EXIT

## ☐ Extended User Accounts and Access Levels

● Extended user accounts (128)
● Extended access levels (14)

EasyBuilder Pro

User1 **** □A□B□C□D□E□F
User2 ***

Administrator Tools
User13**** □A□B..... □J□K□L
User14**** □A□B..... □J□K□L

User11**
User12**
User50**** □A□B..... □J□K□L
User51**** □A□B..... □J□K□

**Base**
**Ext**

Advanced Security Function

## ☐ USB Security Key

Now you can assign access levels for specific periods of time

1.Create a USB Security Key
 via Administrator  Tools

2.Restrict access to some operations
 in the HMI with the USB security key

Assign different access levels for objects or features to enhance security control

| Font | | Extended Memory | |
|---|---|---|---|
| Device | Model | General | System |

Select operatable ch... each user

User1
☑ Enable          d : 111      ☑ A

User2
☑ Enab      ord : 222      □ A

User3
☑ E...      ...d : 333

User 4
☑ Enable          4

User 5
☑ Enable      Password : 555

Siemens MPI
(n - n)

Siemens PPI
(n - n)

BACnet / IP

Siemens S7-1200
Ethernet (Free Tag)

EtherNet / IP
(Free Tag)

Mitsubishi QnU USB

Free Port
Protocol

CANopen

## Powerful Macro Editor and Commands

- Macro syntax is similar to VB-Script. Users can use Macros to design the desired additional features.
- Powerful Macro commands support user defined protocols (free protocol) for other communication devices.
- Sophisticated features are designed for processing complex expressions and string manipulation. This enhances the communication between users and projects.
- The new Macro editing window with toolbars makes designing Macros extremely easy.
- Supports the creation of user-defined Macro Libraries. This feature. allows Macro Libraries to be used in future HMI project designs.
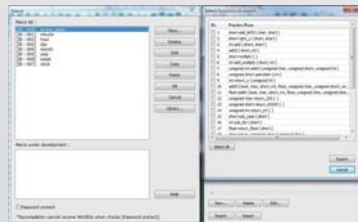
## Use Label Tags to Display Multiple Languages

Label Tag Library a spreadsheet-like display for inputting text in different languages for application in a project. Export Label Tags in CSV format to Excel for editing. Language contents can then be edited further and imported to the Label Tag table.
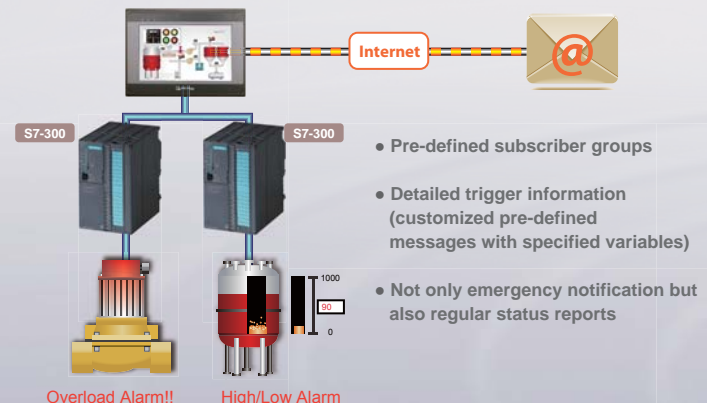
Deutschland   United States   Italia
Türkiye   France   대한민국   España

## Address Tag

1. Get Tag Information
2. Edit Project with Tag Name
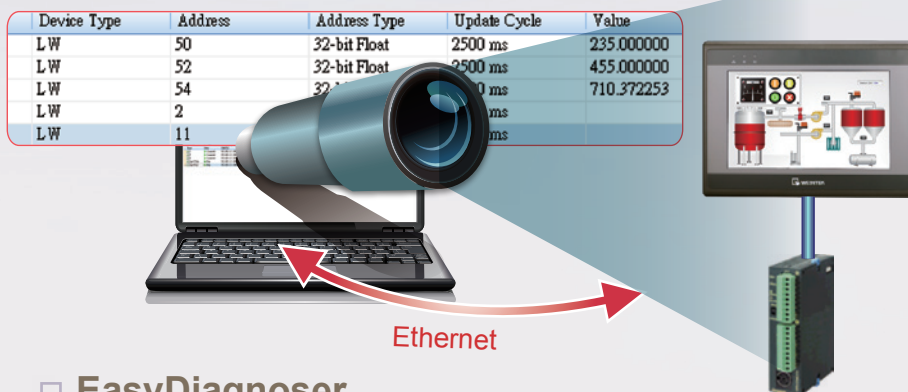3. Download Project to HMI
4. Communication via Tag Name

EasyBuilder Pro

3.

| Name  | Address |
|-------|---------|
| Temp0 | % QW20  |
| Lamp0 | % QW22  |

4.

ETHERNET

Temp0
Lamp0

1.

S7-1200
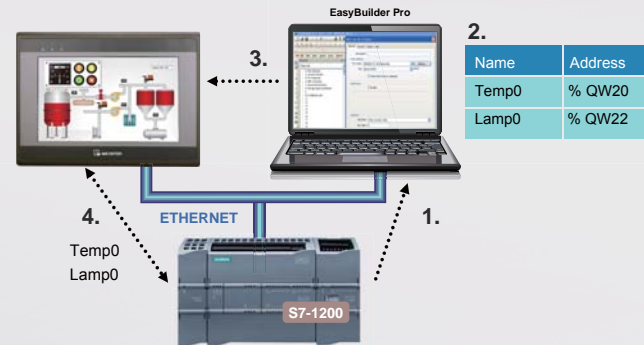
## E-mail Notification

**Inform personnel via E-mail when alarms occur**

Internet

S7-300   S7-300

- **Pre-defined subscriber groups**
- **Detailed trigger information (customized pre-defined messages with specified variables)**
- **Not only emergency notification but also regular status reports**

1000
90
0

Overload Alarm!!   High/Low Alarm

SWITCHES Unlimited

## ☐ EasyWatch

A powerful tool for monitoring and modifying specific address values of remote HMI and PLC devices.

| Device Type | Address | Address Type | Update Cycle | Value |
|---|---|---|---|---|
| LW | 50 | 32-bit Float | 2500 ms | 235.000000 |
| LW | 52 | 32-bit Float | 2500 ms | 455.000000 |
| LW | 54 | 32-... | 0 ms | 710.372253 |
| LW | 2 | | ms | |
| LW | 11 | | ms | |

Ethernet

## ☐ EasyDiagnoser

The EasyDiagnoser utility helps you to analyze and detect communications between the HMI and PLC.

Ethernet

HMI

Remote Diagnosis
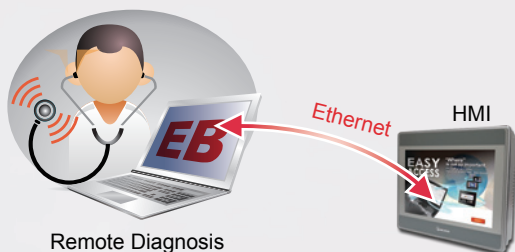
## ☐ Easy Access

Via the innovative EasyAccess feature, you can easily manage your eMT3000 Series HMI on a network.

asynchronous

synchronous

User A
Administrator

User B
View Only

User C
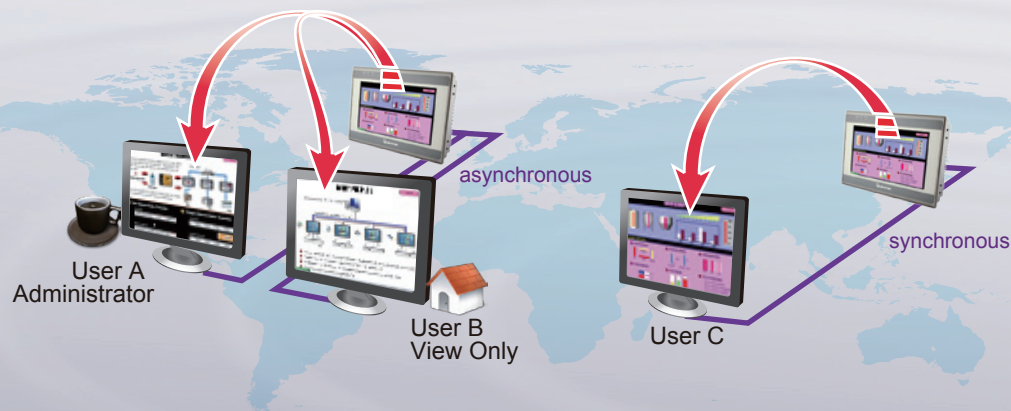
## ☐ Account Management and E-mail Configuration via Administrator Tools

Administrator Tools

| Save to USB | Contents of the USB data |
|---|---|
| ✓ | User Accounts |
| ☐ | USB Security Key |
| ☐ | e-Mail SMTP Sever Settings |
| ☐ | e-Mail Contacts |

User Account Settings

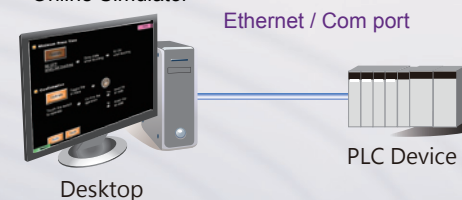| No. | Secret | User name | Password | Class A | Class B |
|---|---|---|---|---|---|
| 1 | ☐ | 001001 | 001001 | ✓ | ☐ |
| 2 | ☐ | 002002 | 002002 | ✓ | ☐ |
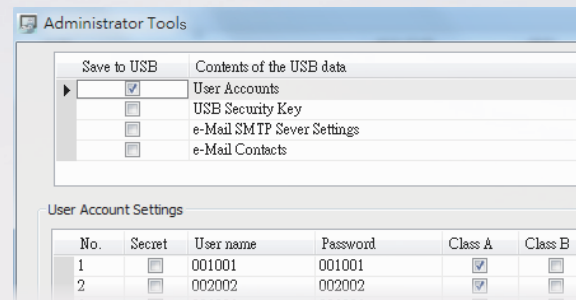
## ☐ EasySimulator

During or after project programming, you can execute an Online Simulation on a PC by directly connecting it to your with PLC (10 min limit) or perform an Offline Simulation without the PLC.
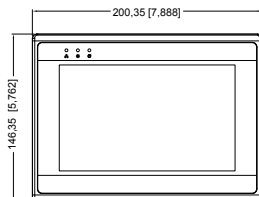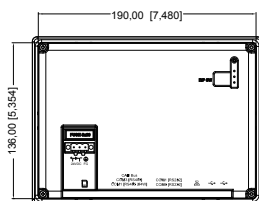
● Offline Simulator

● Online Simulator

Ethernet / Com port

Desktop

PLC Device

Application Features

| | Model | eMT3070B | eMT3105P | eMT3120A | eMT3150A |
|---|---|---|---|---|---|
| **Display** | Display | 7" TFT | 10.4" TFT | 12.1" TFT | 15" TFT |
| | Resolution | 800x480 | 800x600 | 1024x768 | 1024x768 |
| | Brightness (cd/m²) | 500 | 400 | 500 | 400 |
| | Contrast Ratio | 500:1 | 400:1 | 700:1 | 700:1 |
| | Backlight Type | LED | LED | LED | LED |
| | Backlight Life Time | >30,000 hrs. | >30,000 hrs. | >50,000 hrs. | >50,000 hrs. |
| | Colors | 16.7M | 262K | 16.2M | 16.2M |
| | LCD Viewing Angle (T/B/L/R) | 60 / 50 / 65 / 65 | 60 / 70 / 70 / 70 | 80 / 80 / 80 / 80 | 70 / 70 / 80 / 80 |
| **Touch Panel** | Type | 4-wire Resistive Type | 4-wire Resistive Type | 4-wire Resistive Type | 4-wire Resistive Type |
| | Accuracy | Active Area | Active Area | Active Area | Active Area |
| | | Length(X)±2%, Width(Y)±2% | Length(X)±2%, Width(Y)±2% | Length(X)±2%, Width(Y)±2% | Length(X)±2%, Width(Y)±2% |
| **Memory** | Flash | 256 MB | 256 MB | 256 MB | 256 MB |
| | RAM | 256 MB | 256 MB | 256 MB | 256 MB |
| **Processor** | | 32Bit RISC Cortex-A8 1GHz | 32Bit RISC CPU 800MHz | 32Bit RISC CPU 800MHz | 32Bit RISC CPU 800MHz |
| **I/O Port** | SD Card Slot | SD/SDHC | SD/SDHC | SD/SDHC | SD/SDHC |
| | USB Host | USB 2.0 x 1 | USB 2.0 x 1 | USB 2.0 x 1 | USB 2.0 x 1 |
| | USB Client | USB 2.0 x 1 (Micro USB) | USB 2.0 x 1 | USB 2.0 x 1 | USB 2.0 x 1 |
| | Ethernet | 10/100 Base-T x 1 | 10/100 Base-T x 1 | 10/100 Base-T x 1 | 10/100 Base-T x 1 |
| | COM Port | COM1: RS-232/RS-485 2W/4W | COM1: RS-232/RS-485 2W/4W | COM1: RS-232/RS-485 2W/4W | COM1: RS-232/RS-485 2W/4W |
| | | COM3: RS-232/RS-485 2W* | COM3: RS-232/RS-485 2W* | COM3: RS-232/RS-485 2W* | COM3: RS-232/RS-485 2W* |
| | RS-485 Dual Isolation | Yes | Yes | Yes | Yes |
| | CAN Bus | Yes | Yes | Yes | Yes |
| **RTC** | | Built-in | Built-in | Built-in | Built-in |
| **Power** | Input Power | 24±20% VDC | 24±20%VDC | 24±20%VDC | 24±20%VDC |
| | Power Isolation | Built-in | Built-in | Built-in | Built-in |
| | Power Consumption | 400mA@24VDC | 800mA@24VDC | 850mA@24VDV | 900mA@24VDV |
| | Voltage Resistance | 500VAC (1 min.) | 500VAC (1 min.) | 500VAC (1 min.) | 500VAC (1 min.) |
| | Isolation Resistance | Exceed 50MΩ at 500VDC | Exceed 50MΩ at 500VDC | Exceed 50MΩ at 500VDC | Exceed 50MΩ at 500VDC |
| | Vibration Endurance | 10 to 25Hz | 10 to 25Hz | 10 to 25Hz | 10 to 25Hz |
| | | (X, Y, Z direction 2G 30 minutes) | (X, Y, Z direction 2G 30 minutes) | (X, Y, Z direction 2G 30 minutes) | (X, Y, Z direction 2G 30 minutes) |
| **Specification** | PCB Coating | Yes | Yes | Yes | Yes |
| | Enclosure | Aluminum | Plastic | Aluminum | Aluminum |
| | Dimensions WxHxD | 200.3 x 146.3 x 42.5 mm | 286.2 x 212.8 x 50 mm | 317 x 244 x 46 mm | 366 x 293 x 57 mm |
| | Panel Cutout | 192 x 138 mm | 259 x 201 mm | 305 x 231 mm | 352 x 279 mm |
| | Weight | Approx 0.9kg | Approx 1.6kg | Approx 2.1kg | Approx 2.75kg |
| | Mount | Panel mount | Panel mount, VESA mount 75 x 75 mm | Panel mount, VESA mount 75 x 75 mm | Panel mount, VESA mount 75 x 75 mm |
| **Environment** | Protection Structure | UL Type 4X (indoor use only) / | UL Type 4X (indoor use only) / | NEMA 4 / IP66 Compliant Front Panel | UL Type 4X (indoor use only) / |
| | | NEMA4 / IP66 Compliant Front Panel | NEMA4 / IP65 Compliant Front Panel | | NEMA4 / IP65 Compliant Front Panel |
| | Storage Temperature | -20°~70°C (-4°~158°F) | -20°~60°C (-4°~140°F) | -20°~70°C (-4°~158°F) | -20°~70°C (-4°~158°F) |
| | Operating Temperature | -20°~50°C (-4°~122°F) | 0°~50°C (32°~122°F) | 0°~50°C (32°~122°F) | 0°~50°C (32°~122°F) |
| | Relative Humidity | 10% ~ 90% (non-condensing) | 10% ~ 90% (non-condensing) | 10% ~ 90% (non-condensing) | 10% ~ 90% (non-condensing) |
| **Certificate** | CE | CE marked | CE marked | CE marked | CE marked |
| | UL | cULus Listed | cULus Listed | cULus Listed | cULus Listed |
| **Software** | | EasyBuilder Pro | EasyBuilder Pro | EasyBuilder Pro | EasyBuilder Pro |

Product Specification 6

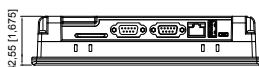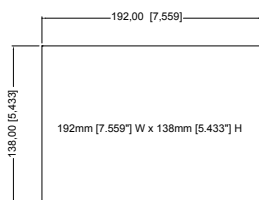* Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

## eMT3070B
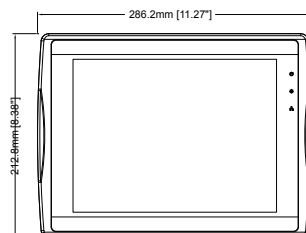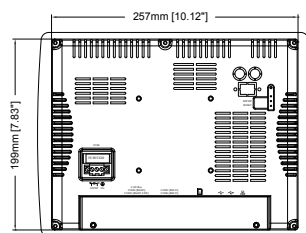
200,35 [7,888]

146,35 [5,762]

**Front View**

190,00 [7,480]

136,00 [5,354]

**Rear View**

42,55 [1,675]

**Bottom View**

192,00 [7,559]

138,00 [5,433]

192mm [7.559"] W x 138mm [5.433"] H

**Panel Cutout**

## eMT3105P

286.2mm [11.27"]

212.8mm [8.38"]

**Front View**

257mm [10.12"]

199mm [7.83"]

**Rear View**

50mm [1.97"]

**Bottom View**

259mm [10.20"]

R2mm [R0.08"]

201mm [7.91"]

259mm [10.20"] W x 201mm [7.91"] H

**Panel Cutout**

## eMT3120A

317mm [12.49"]

244mm [9.61"]

**Front View**

303mm [11.93"]

229mm [9.01"]

**Rear View**

Panel-mounting clamp slots, 12 places

46mm [1.82"]

**Bottom View**

305mm [12.01"]

231mm [9.09"]

305mm [12.01"] W x 231mm [9.09"] H

**Panel Cutout**

## eMT3150A

366mm [14,41"]

293mm [11,54"]

**Front View**

350mm [13,78"]

277mm [10,91"]

75mm [2,95"]

75mm [2,95"]

**Rear View**

Panel-mounting clamp slots, 10 places

57mm [2,24"]

**Bottom View**

352mm [13,86"]

279mm [10,98"]

352mm [13.86"] W x 279mm [10.98"] H
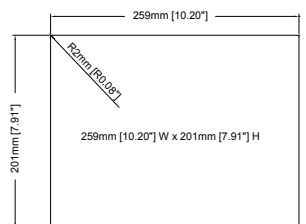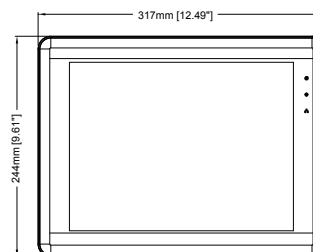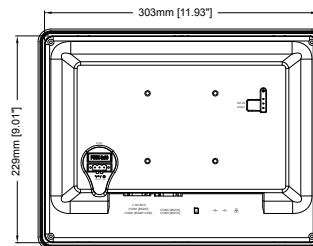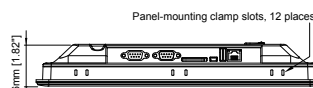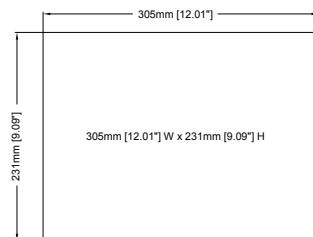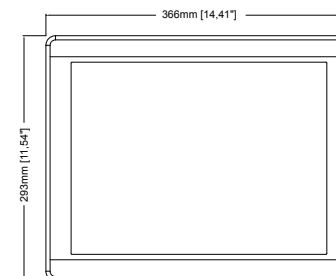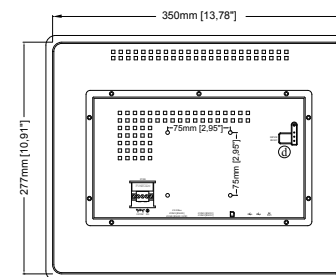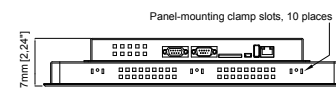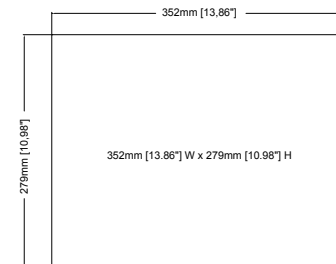
**Panel Cutout**

**WEINTEK**

**WEINTEK LABS., INC.**
**Taiwan**

ISO 9001: 2015

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