



Frequently Asked Questions

New Silver Series EM Operator Interface Terminals (OITs) vs. Old Silver Series OITs

What are the differences between the new and old seven inch OITs?

The new seven inch Silver Series EM OIT (p/n TS00-0070-EM00) is same physical size, has the same size screen with the same resolution, but is faster, has more memory and supports the display of more colors than the older model Silver Series OIT (p/n TS00-0070-0000). For some, the most exciting difference is the addition of email support in the new model. See the table below for a more complete comparison of the specifications.

Why should I use the new model?

There are lots of new features available only in the new model:

- E-mail messages triggered by events and alarms
- More colors displayed, a faster processor and more RAM
- Support for USB barcode scanners
- Conformal coating protects the electronics against corrosion due to moisture
- Isolated RS-485 serial communications
- Reduced behind the panel depth and reduced weight make placement and mounting more flexible
- Enhanced security with user-based, two-part authentication (user name and password) and many more users than the old, 127 users vs. 12 numeric passwords. (The old method still works too.)
- 24 languages per project (up from eight)

Is the new model a drop in replacement for the old model?

The new model is an excellent replacement for the old one:

- Same cutout size and overall width and height
- Same connector and pin out for COM1 RS-485

However, it is not *identical*. Some differences to be aware of include:

- Bezel and overlay are two-tone grey instead of black
- Power connector is on the bottom instead of on the back
- Old one has three serial communications ports; the new model has two and the pin out of COM 3 is different
- The old model supports SD cards and USB flash drives; the new one only USB flash drives
- The old model can be programmed via Ethernet, SD card, USB flash drive or USB cable; the new one via Ethernet or USB flash drive
- The new model draws more current from the power supply
- New model has no audio out
- New model does not support VESA 75 mounting
- Using EZware-5000 projects on new model requires compiling with EZwarePlus

Will my EZware-5000 project work on the new Silver Series EM OIT?

The new Silver Series EM OITs are programmed with EZwarePlus software instead, but you can easily convert EZware-5000 projects by opening them with EZwarePlus, and compiling them. EZwarePlus supports all the same features and screen objects as EZware-5000 and more.

Will it take long to learn the new EZwarePlus software?

There are very few differences in the user interface between EZwarePlus and EZware-5000. You should hardly notice the change. All the great features of EZware-5000 are there plus all the exciting new features that allow you to take advantage of the Silver Series EM's superior performance and new capabilities.

How do the specifications between the old OIT and the new one differ?

The following table illustrates the similarities and differences between the old seven inch Silver Series OIT and new seven inch Silver Series EM OIT. **The superior value is shaded.**

Specification/Feature	Old TS00-0070-0000	New TS00-0070-EM00
Enclosure	Plastic	Plastic
Bezel Color	Black	Two-Tone Gray
Diagonal Screen Size (inches)	7 in.	7 in.
Display Resolution (W x H)	800 x 480	800 x 480
Display Type	TFT Color	TFT Color
Number of Colors Displayed	65,536	16,000,000
Brightness (cd/m ²)	375	350
Contrast Ratio	500:1	500:1
View Angels (T/B/L/R)	45/65/65/65	60/70/70/70
Backlight Type	LED	LED
Backlight Longevity (hours)	30,000	30,000
Touch Technology	4-Wire Analog Resistive	4-Wire Analog Resistive
CPU Architecture	32-bit, RISC	32-bit, RISC
CPU Speed	400 MHz	600 MHz
Flash Storage	128 MB	128 MB
RAM	64 MB	128 MB
Moisture Resistant PCB Coating	No	Yes
Ethernet (10/100 Base-T, RJ45)	Yes	Yes
Number of Serial Ports	3	2
Isolated RS-485 Serial Port	No	Yes
COM 1 Communications	RS-485 2-wire or 4-wire RS-232	Same options Same DB9 pinouts
COM 2 Communications	RS-232	No COM 2
COM 3 485 Communications	RS-485 2-wire	Change to DB9 pinout
COM 3 232 Communications	RS-232	No COM 3 232
USB 2.0 Host Port	Yes	Yes
USB Client (Programming) Port	Yes	No
SD Card Slot	Yes	No
Programming S/W	EZware-5000	EZwarePlus
Can Generate and Send E-Mail	No	Yes
Data Logging and Trending	Yes	Yes

Specification/Feature	Old TS00-0070-0000	New TS00-0070-EM00
Password Protection	12 users Numeric passwords	127 users Alphanumeric user names and passwords
Multi-Language Support	8 Languages per project	24 Languages per project
Macro Support	Yes	Yes
Audio Line Out	Yes	No
Real Time Clock	Yes	Yes
VNC Server	Yes	Yes
Operating Temperature	0 to 50°C	0 to 50°C
Relative Humidity	10-90% @ 40C (non- condensing)	10-90% @ 40C (non-condensing)
Storage Temperature	-20 to 60°C	-20 to 60°C
Shock (x,y,z direction, 2G, 30 min.)	10 to 25Hz	10 to 25Hz
Agency	CE, RoHS, UL [®] , FCC Class A	CE, RoHS, cULus
Environmental Ratings	IP65, NEMA 4, NEMA 4X (indoor only)	IP65, NEMA 4 (indoor only)
Mounting	Panel or VESA 75	Panel
Voltage	24 VDC	24 VDC
Current Requirement (mA)	250	350
PS Isolation:	None	50MΩ @500VDC
Power Connector Location	Back	Bottom
Overall Dimensions W x H (mm)	200 x 146	200 x 146
Depth (mm)	54	34
Panel Cutout (mm)	192 x 138	192 x 138
Weight	1.8 lbs. (0.85 kg)	1.3 lbs. (0.6 kg)