

Amano TS-3000i

Amano TS-3000i Time Stamp Instruction Manual

Model: TS-3000i | Brand: Amano

1. INTRODUCTION AND OVERVIEW

The Amano TS-3000i is a standalone, web-based time stamp solution designed for automatic time synchronization. It ensures compliance for financial institutions with FINRA OATS Rule 7430 by automatically syncing to NIST or other internal/external NTP time sources. This device offers easy setup and management with minimal IT involvement, providing accurate timekeeping within 4/10 of a second over a 24-hour period once synchronized.



Image 1.1: Front view of the Amano TS-3000i Time Stamp unit, showing its compact design and digital display.

2. KEY FEATURES

- **FINRA OATS Rule 7430 Compliance:** Assures financial institutions' compliance with regulatory requirements by maintaining precise time synchronization.
- **Automatic NTP Synchronization:** Automatically syncs directly to NIST or internal/external NTP time sources for consistent accuracy.
- **Standalone or Centrally Managed:** Can be configured via a standard web browser for standalone use or integrated with ATVS Software for central management of up to 10,000 units.

- **Plug and Play with Zeroconf Protocol:** Facilitates minimal IT involvement for device connection and automatic operation.
- **Integral Diagnostics:** Features an LCD display, transaction reset, and manual time sync for easy troubleshooting and control.
- **Customizable Printing and Alarms:** Supports alphanumeric custom comments up to 21 characters, selectable for right or left side printing, and includes visible alarms and email notifications for synchronization events.
- **Power over Ethernet (PoE) Support:** Optional accessory for simplified power and network connectivity.
- **Long-term Transaction Log Storage:** Automatically maintains transaction log files in the clock for up to 5 years with a normal sync schedule.

3. SETUP INSTRUCTIONS

1. **Unpack the Device:** Carefully remove the TS-3000i from its packaging and ensure all components are present.
2. **Power Connection:** Connect the provided power adapter to the device and a suitable power outlet. If using Power over Ethernet (PoE), connect an Ethernet cable from a PoE-enabled switch or injector to the device's Ethernet port.
3. **Network Connection:** Connect an Ethernet cable from your network to the device's Ethernet port. The TS-3000i supports Dynamic Host Configuration Protocol (DHCP) for automatic network configuration.
4. **Initial Boot-up:** Allow the device to power on. The LCD display will show boot-up progress.
5. **Web-Based Configuration:** Access the device's web interface using a standard web browser. The Zeroconf Protocol allows for automatic discovery on the network. Refer to the network administrator for the assigned IP address or use a network scanning tool if necessary.
6. **Time Synchronization Setup:** Within the web interface, configure the NTP server settings (NIST or your internal/external NTP source) to ensure automatic time synchronization.

4. OPERATING INSTRUCTIONS

1. **Automatic Time Sync:** Once configured, the TS-3000i will automatically synchronize its time with the designated NTP server. This process occurs regularly to maintain accuracy.
2. **Manual Time Sync:** If needed, a manual time synchronization can be initiated through the device's web interface or via the integral diagnostics on the unit itself.
3. **Printing Operations:** Insert the time card or document into the printing slot. The device will automatically imprint the current time, date, and any configured custom comments. The printing format (right/left side, imprint content) can be customized via the web interface.
4. **Transaction Log Access:** Transaction log files are stored internally for up to 5 years. These logs can be accessed, emailed, saved, or printed through the web interface for auditing and record-keeping purposes.
5. **Alarm and Notification Management:** The device provides visible alarms on the time stamp imprint and LCD display if synchronization issues occur. Email notifications and SNMP traps can also be configured to alert administrators of clock status and synchronization events.

5. MAINTENANCE

- **Regular Log Review:** Periodically review the transaction logs to ensure proper operation and compliance.

- **Monitor Alarms:** Pay attention to visible alarms on the LCD display and time stamp imprints, as well as email notifications, to address any synchronization failures promptly.
- **Firmware Updates:** Check the Amano website periodically for firmware updates to ensure optimal performance and access to new features. Follow the provided instructions for safe firmware installation.
- **Cleaning:** Keep the device clean and free from dust. Use a soft, dry cloth for exterior cleaning. Avoid using harsh chemicals or abrasive materials.

6. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected to both the device and a working power outlet. If using PoE, verify the Ethernet cable is connected to a PoE-enabled port and the switch is operational.
- **No Network Connectivity:** Check the Ethernet cable connection. Verify network settings in the web interface. Ensure the network port on the switch is active.
- **Time Synchronization Failure:** Check the NTP server settings in the web interface. Ensure the device has proper network access to the configured NTP server. Visible alarms on the LCD or imprint will indicate synchronization issues.
- **Printing Issues:** Ensure the time card or document is inserted correctly. Check for any paper jams. Verify print settings in the web interface.
- **LCD Display Issues:** If the LCD display is blank or unreadable, try power cycling the device. If the issue persists, contact support.
- **Resetting the Device:** The device includes a transaction reset function. Refer to the web interface or the device's physical controls for this option. Use with caution as it may clear certain data.

7. SPECIFICATIONS

Feature	Detail
Brand	Amano
Model Number	TS-3000i
Connectivity Technology	Ethernet
Operation Mode	Automatic
Display Type	Digital
Product Dimensions	5.9"W x 6.9"H
Item Weight	6 Pounds
Power Source	Battery Powered <i>(Note: This may refer to internal clock battery, main power is external adapter/PoE)</i>
Mounting Type	Tabletop
Indoor/Outdoor Usage	Indoor
Material	Engineered Wood <i>(Note: This likely refers to casing material)</i>

8. WARRANTY AND SUPPORT

Warranty information for the Amano TS-3000i Time Stamp is typically provided with the product documentation at the time of purchase. For detailed warranty terms and conditions, please refer to the official Amano website or the warranty card included in your product packaging.

For technical support, troubleshooting assistance, or service inquiries, please contact Amano customer support. Contact details can usually be found on the Amano official website or in your product's documentation.