

# TSC100

## QUICK START GUIDE



### QUICK SETUP

1. Connect the TSC100 to the network switch
2. Connect to power, ensuring correct voltage (48 Vdc – 250 Vdc) is used
3. When running the TSC100 for the first time, the Time Output, Network, and Security settings can be configured by running the Configuration Tool software on any PC on the same network as the TSC100. See Configuration Tool Tips and Networking Tips for more help
4. Once the TSC100 is fully setup, connect the clock outputs to your device/s

### CONFIGURATION TOOL TIPS

- The Configuration Tool software is available from [www.tekron.com](http://www.tekron.com)
- To connect to your TSC100: press the **Discover** button, then select the TSC100 from the list, then press the **Configure** button  
Default login is – **User Name:** admin, **Password:** Password\*
- Upon first connection you will be prompted to change the default password.
- In most cases, set the “Cable Delay” to 4ns for every meter of antenna cable, and the “Mask Angle” to 5 degrees. This can be set on the GNSS tab
- In most applications, the P1 and P2 outputs should be configured to IRIG-B, with “Extensions” set to C37.118 (previously IEEE 1344, see right)
- Set this by going to the I/O tab, then for each port:
  - 1) Select the port
  - 2) Set the output type to IRIG-B
  - 3) Change the extensions to C37.118

**\*Warning:** Please ensure that you record your password and store it in a secure manner. In accordance with Cyber Security “best practice”, if the administrative passwords are lost, the device must be sent back to the manufacture to recover the password

### NETWORKING TIPS

- If the TSC100 does not appear when you press **Discover** in the Configuration Tool, connect the TSC100 directly using an Ethernet cable
- If using DHCP: before powering up ensure the TSC100 is connected to the network
- Ensure your firewall(s) has UDP exceptions for the configuration program and for ports 9992 , 9997 & 9999
- Ensure you have administrative rights on your PC

### DEVICE CONNECTION TIPS

- It’s recommended a twisted pair cable is used to connect devices to the TTL port
- A termination 120  $\Omega$  resistor can be added to the end of a TTL run to achieve good impedance match



Top Panel – Inputs/Outputs



Bottom Panel – Inputs/Outputs

