

TCG 01-E

What's New Guide



The TCG 01 is changing

Our flagship clock, the TCG 01 is changing to the TCG 01-E. This guide will give you an insight into what you can expect from the clock in future.



The changes include.....

- Remote configuration via Ethernet
- A new look and feel to the Configuration Tool
- The ability to activate NTP/ SNTP and PTP via license key
- SNMP management



About Tekron

Tekron International is a leading developer of exceedingly accurate GPS clocks and time synchronization solutions for use in industrial applications.

Tekron GPS clocks are simple to install and use and are extremely rugged, attributes that are a prerequisite in the often extreme environments in which the clocks are installed.

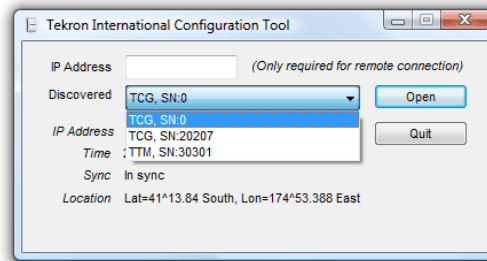
Tekron GPS clocks have been installed in thousands of power stations & substations across the globe, where they prove invaluable in assisting power companies to operate efficiently, minimizing downtime and increasing the accuracy of control decisions.

With a Tekron GPS clock you can be confident that you can set it up and walk away.

Remote configuration

Throw away your serial to Ethernet converters - The TCG 01-E can now be configured remotely via Ethernet.

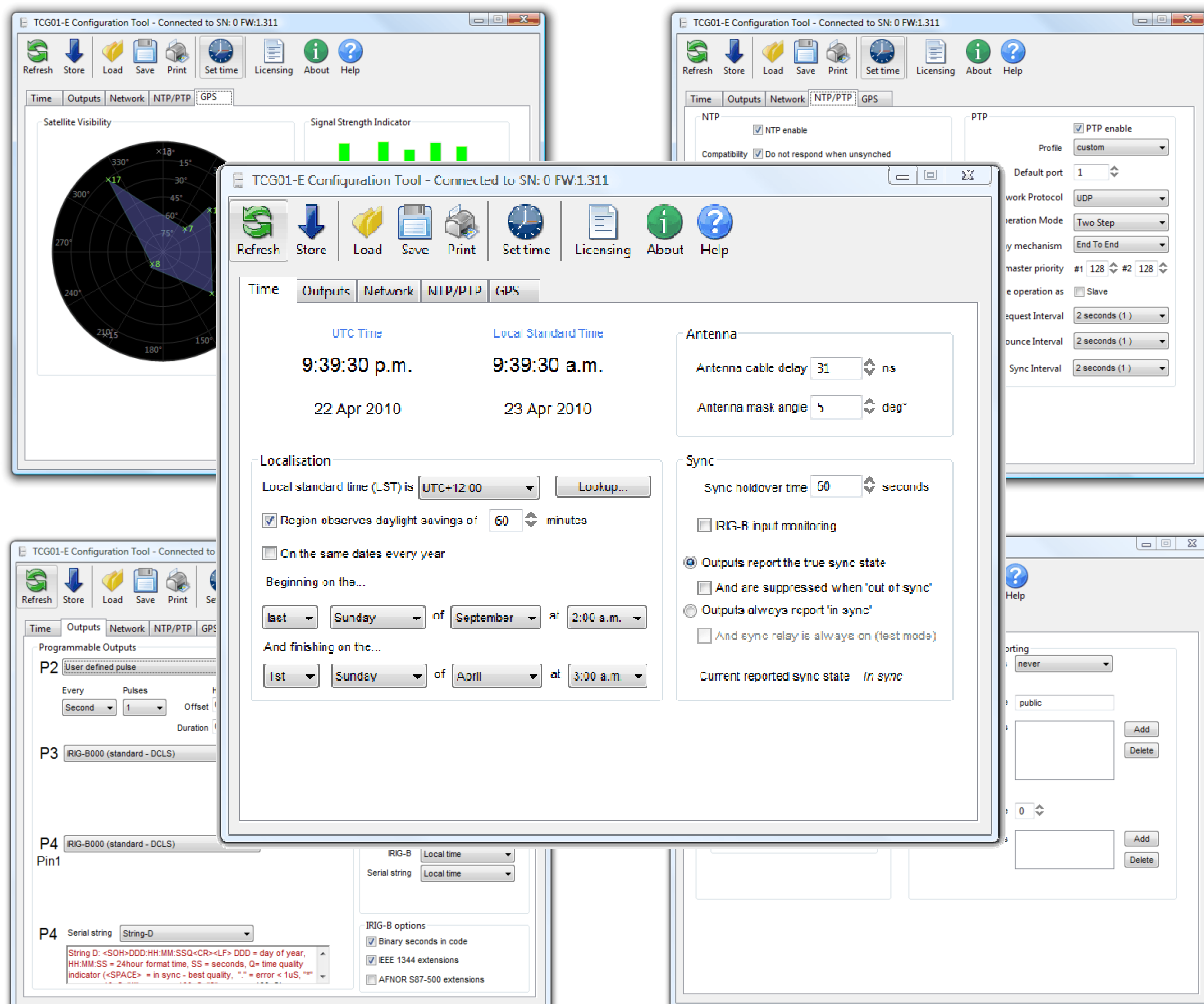
Once opened, the first thing the Configuration Tool does is broadcast a message to all Tekron Ethernet configurable clocks on the subnet. The clocks respond with a message containing information identifying their type and serial number. You then choose which clock to open.



If a clock is on a different subnet, but the firewall settings of the network and the IP address programmed into the clock are known, the clock can be accessed remotely using the configuration software.

A new look and feel to the Configuration Tool

Our designers have given the Configuration Tool a refreshing new look.



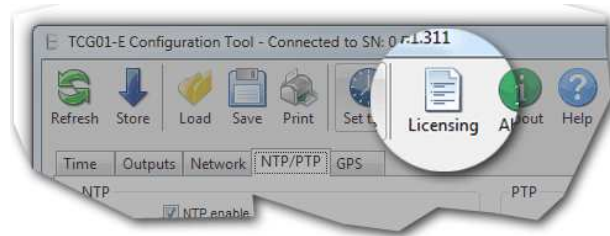
PTP & NTP via a License key

Precision Time Protocol (PTP) as defined in IEEE 1588 v2 is increasingly being recognised as the next generation method of time synchronisation. There are a number of drivers for this, including the need for sub-microsecond timing for phasor measurement units and the current impetus to standardise communications between multiple manufacturers' Intelligent Electronic Devices (IEDs).

Watch out for the adoption of PTP in the next revision of IEC 61850.

The TCG 01-E is a future-proof clock: you can activate NTP/SNTP & PTP at any time simply by contacting Tekron and purchasing a license key.

The TCG 01-E is a versatile PTP clock which can act as a Grand Master, Master, Ordinary or Slave Clock. The clock also supports 1-step and 2-step operation.



SNMP Management

The TCG 01-E supports SNMP (Simple Network Management Protocol) Walk. This is an application that enables you to obtain data from the TCG 01-E on the clock's current status.