

Models:

CT01 Commissioning Tool – Sub System Network

**Commissioning Tool
Sub System Network****Overview**

The *Commissioning Tool* is a device that allows the user to configure the controllers on a Sub System Network by providing access to the controller's Human Machine Interface (HMI).

The *CT01* can either directly connect to controllers that are set up for a Sub System Network via an Innotech IG01 Sub System Gateway, or to the network itself using the provided adapter cable. When connected to a Sub System Network, the *CT01* can be used to search and log on to any compatible Sub System controller. Information made available on each controller may then be viewed and adjusted.

The *CT01* is designed for easy access to Sub System Network controllers that are located in remote or inaccessible areas of the DDC network.

Features

- Access up to 62 controllers on a Sub System Network
- 4 line, 20 character backlit Liquid Crystal Display
- Isolated RS485 communications
- Network display mode
- Network searching facilities
- Log On button allows users to connect and disconnect from an individual controller
- Convenient reconnect function
- Flash RAM for in-system firmware upgrades
- Operates on power supplied by a controller, or the IG01 Sub System Gateway

Interface

The *CT01* interface is an easy to use and is consistent with the Innotech MAXIM family of products.

**Applications**

The *CT01* can be used in a variety of situations. Its main advantage is allowing easy access to a number of controllers from a single point, without the need of a computer. This enables the user to access a controller without requiring physical contact with the chosen controller.

- Direct connection to a dedicated Sub System controller
- Single point of access to a Sub System Network of controllers
- Hand held service tool
- Used as a monitoring device

COMPATIBLE SUB SYSTEM CONTROLLERS

- Innotech MiniMAX MM02 Controller
- Innotech MiniMAX MM02C Controller
- Innotech VAVMax VM01 Controller
- Innotech VAVMax VM01C Controller
- Innotech MicroMAX UM01 Controller
- Innotech MicroMAX UM01C Controller

Specifications

POWER SUPPLY REQUIREMENTS

Powered by IG01 Sub System Gateway or Sub System controller.

ENVIRONMENTAL

Operating Temperature	0 to 40°C non-condensing
Storage Temperature	0 to 50°C non-condensing

ENCLOSURE

Housed in an ergonomically designed case. Housing moulded from flame retardant plastics recognized by UL as UL94-V0.

Colour	Grey
Dimensions (Maximum)	(W)155mm x (H)51mm x (D)93mm

APPROVALS

EN61326-1:1998 for RCM Labelling

Terminal Identification

POWER SUPPLY

P+	Positive wire from power source
P-	Negative wire from power source

COMMS

SHLD	Shield from comms cable
C+	RS485 (+) signal
C-	RS485 (-) signal

Operating Modes

The CT01 offers two operating modes: Configuring and Communicating.

Configuring mode can be accessed by pressing the # button. You will be presented with four menu options to choose from: **Search**, **Setup**, **Devices**, and **Reconnect**.

Refer to *Setting Up the Commissioning Tool* for further details.

Communicating mode can be accessed by pressing the **Log On** button. You can then enter the device page and log on to a remote controller. When logged on to a controller, you can view watch pages and system info, change variables, and operate all other functions. Refer to the *Controller HMI Menu* section.

When you have finished your tasks on the remote controller, press the **Log On** button to disconnect. The CT01 then automatically logs off and reverts to the default mode.

Controller HMI Menu

Using the six navigational push buttons on the CT01 you can access the menu structure of the controller you are connected to.

The display has up to 5 programmable watch pages with user defined descriptions. Each page displays 5 points of information, and allows access to the status of all IO values and system information. You can set the clock/schedule variables and calibrate inputs. All information shown on the display is in English with standard engineering units.

Setting Up the Commissioning Tool

The Commissioning Tool set up menu has 4 options: **Search**, **Setup**, **Devices**, and **Reconnect**.

The **Search** option simply searches the network for all available controllers you can connect to. If any controllers that are not initialised, (i.e controllers that have not been assigned an address by the IG01 Sub System Gateway) are detected, the display will indicate: *Uninit DEVICE FOUND! Use the IG01 to initialise them ... <Press Any Key>*. You can then cycle power to the IG01 Sub System Gateway and wait for a period of time for the controller/s to be initialised.

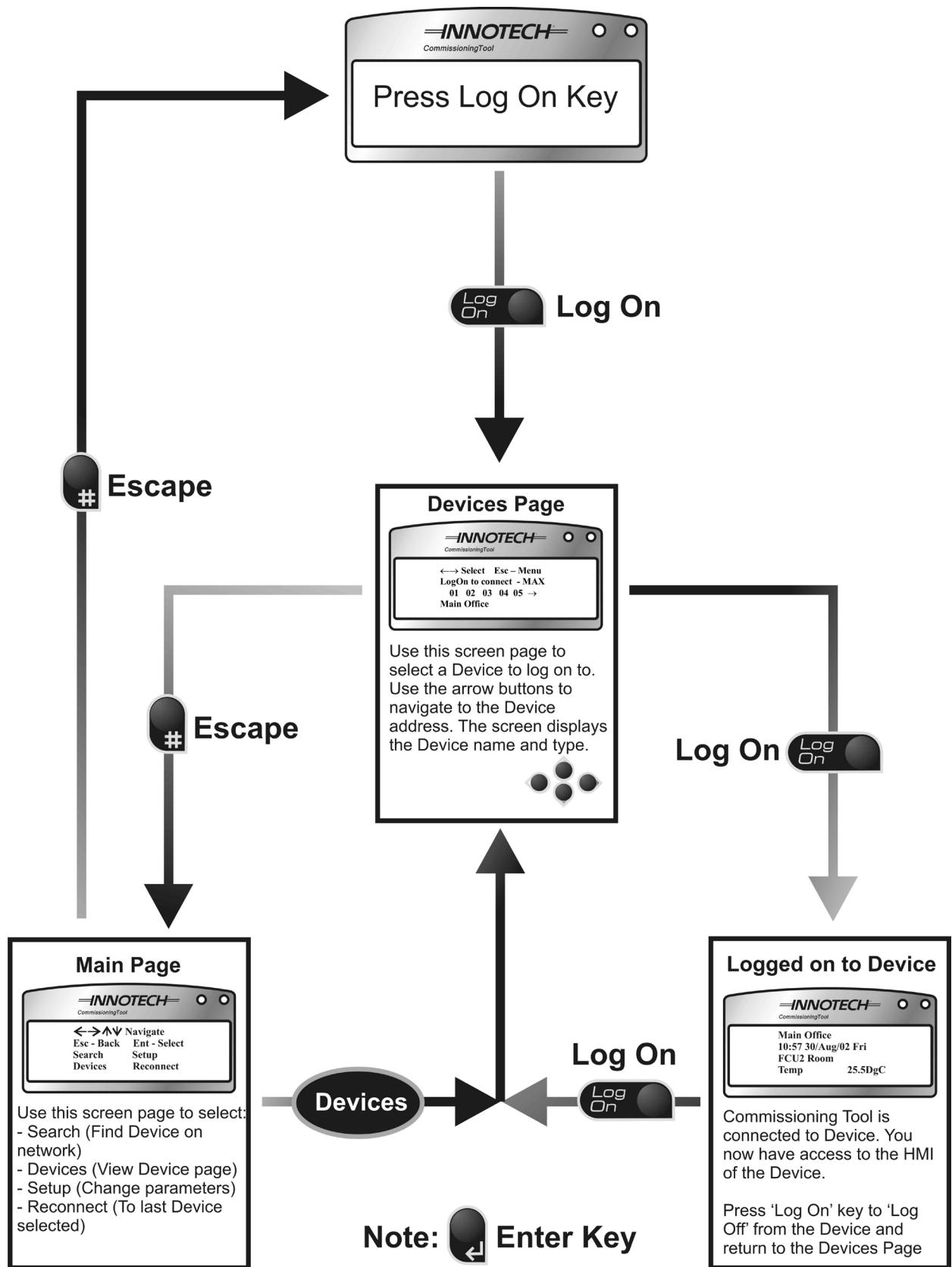
Search Type must be set to **Network** in order to search for controllers that are not initialised.

The **Setup** option allows you to configure two parameters: **Search Type** and **Comms Speed**.

- *Search Type* determines if a connection is made to a Sub System Network, or directly to a standalone controller.
- *Comms Speed* is the communication connection type that will be used to interrogate the controller.

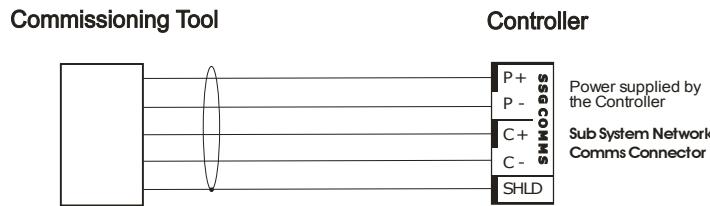
The **Device** option shows all devices connected to the CT01, as found using the **Search** option.

The **Reconnect** option allows you to reconnect to the last device you were connected to.



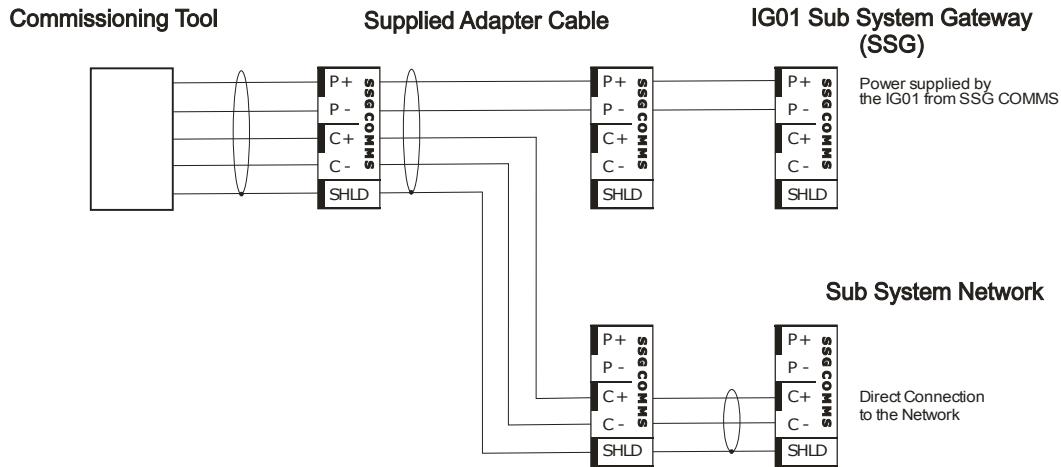
STANDARD CONNECTION

Commissioning Tool connecting directly to a Sub System Controller



SUB SYSTEM NETWORK CONNECTION

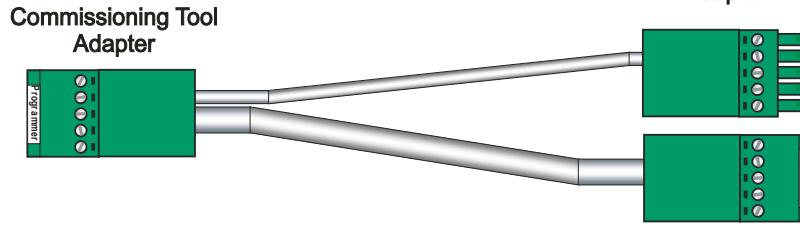
Commissioning Tool connecting to a Sub System Network of Controllers using the supplied Adapter Cable



SUPPLIED ADAPTER CABLE

Adapter Cable uses 5 way 3.8mm pitch Comms Connector/Plug.
 The Adapter Cable bypasses the IG01 Sub System Gateway providing the Commission Tool direct access to the network while using the IG01 Sub System Gateway to power the Commissioning Tool.

IG01 Sub System Gateway Adapter



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