

MODELS:
VCT: VAVMAX Commissioning Tool

VAVMAX Commissioning Tool

Overview

The *VAVMAX Commissioning Tool* is a device that allows the user to configure the VAVMAX Controller on an Innotech Gateway (IG01) Network by providing access to the controller's Human Machine Interface (HMI). The *Commissioning Tool* can directly connect a VAVMAX Controller that is setup for an IG01 Network or to the IG01 Network itself using the provided adapter cable. When connected to an IG01 network, the *Commissioning Tool* can be used to search for controllers present on the network. A user may then use the Commissioning Tool to log onto any one of the available VAVMAX controllers. The *Commissioning Tool* is designed for easy access to networked controllers that are located in remote or inaccessible areas.



Features

- Access up to 62 networked VAVMAX Controllers
- 4 line, 80 character Liquid Crystal Display
- Isolated RS485 Communications
- Network Display Mode
- Network Searching Facilities
- User Programmable Sleep Timeout
- Select Button allows User to Connect and Disconnect from an individual VAVMAX Controller
- Convenient Re-connect function
- Flash ROM for in-system Firmware upgrades
- Operates on power supplied by a VAVMAX Controller or the Innotech Gateway.
- 2 bright LEDs to provide illumination

Applications

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

- A simple direct connection to a VAVMAX Controller configured for the IG01 Network
- A single point of access to an IG01 Network of VAVMAX Controllers
- Hand held Service Tool
- Used as a monitoring device

Approvals

The Innotech *VAVMAX Commissioning Tool* conforms to:

- EN 55011 Class B Group 1 & EN 50082-1 for CE Marking
- AS/NZS 2064:1997 for C-Tick Labelling
- Title 47 CFR, Part 15 - Class A for FCC Marking
- UL listed to UL916, File Number E242628

Specifications

Power Supply

The Power is supplied by the IG01 or VAVMAX Controller.

Terminal Identification:

Power Supply

PGM = Power supplied by the SFG or VAVMAX Controller

Comms Connection

- S = Shield from the comms cable
- + = RS485 (+) signal
- = RS485 (-) signal

Temperature Ratings

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

Enclosure

Plastic Enclosure manufactured from flame retardant polycarbonate/ABS plastic listed under UL94.

Interface:

The interface of the *Commissioning Tool* is a easy to use layout consistent to other products in the Innotech product range.

States

The Commissioning Tool can be in two states of operation. These states are Configuring or Communicating.

The First State Configuring. Is when the user presses the # button, a menu is displayed giving the option to “Search”, “Setup”, “Devices” or “Reconnect”.

See *Setting Up the Commissioning Tool* for further detail.

The second state Communicating. Is when the user presses the “Log On” button, where the user can log onto a remote VAVMAX Controller. Once the user has connected to a controller using the Log On button. The user can view watch pages, system info and change variables, and operate all other functions in the usual manner. See the VAVMAX Controller HMI Menu section below.

When the interrogation the VAVMAX Controller has finished, the “Log On” button is used to log off, or disconnect from the controller. When pressed, the *Commissioning Tool* automatically escapes out of the current page, logs off and reverts to the default mode.

VAVMAX Controller HMI Menu

Using the six navigational push buttons on Commissioning Tool, the user can gain access to the menu structure on the selected VAVMAX Controller shown below.

Default	Status	Clock	Setup	Commission
	▶ Watches	▶ Set Clock	▶ Var Setup	▶ Run/Stop
	▶ Alarms	▶ Schedules	▶ IO Config	▶ Calibrate
	▶ IO Values		▶ PID Par	▶ Network
	▶ Sys Info			

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

Setting Up the Commissioning Tool

The Commissioning Tool set up menu has four options. Search, Setup, Devices and Reconnect.

The Search option, simply searches the network to produce a list of available devices for connection via the Log On screen. Note, searches between the Search Start and Search Stop address. If any uninitialised (i.e. have not been assigned an address by the IG01) VAVMAX Controller(s) are detected, the display will indicate this. To initialise these controller(s), disconnect the Commissioning Tool and reconnect the IG01 to the IG01 Network, then cycle power to the IG01 and wait

for a period of time for the VAVMAX Controller(s) to be initialised. Please note, this test for uninitialised controllers is only performed when the *Search Type* is to *Network*

The Set up option, has a sub menu consisting of the following parameters. Mode, Search Type, Default Maxim, Sleep Delay, Comms Speed, Search Start and Search Stop.

The Device option, will display a list of the active devices found connected to the Commissioning Tool as found by the Search option, subject to the start search and stop search parameters.

The Reconnect option, will log the user on to the device last connected.

Set Up Parameters

Search Type, this determines if a connection is made to an IG01 *Network* or directly to a *Standalone* VAVMAX Controller.

Comms Speed, this is communications connection type that will be used to interrogate the VAVMAX Controller.

Start Search, this is the start address for the Miniport to begin its search for active devices on the network.

Stop Search, this is the end address for the Miniport to terminate its search for active devices on the network.

FCC Class A Notice

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note – This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can

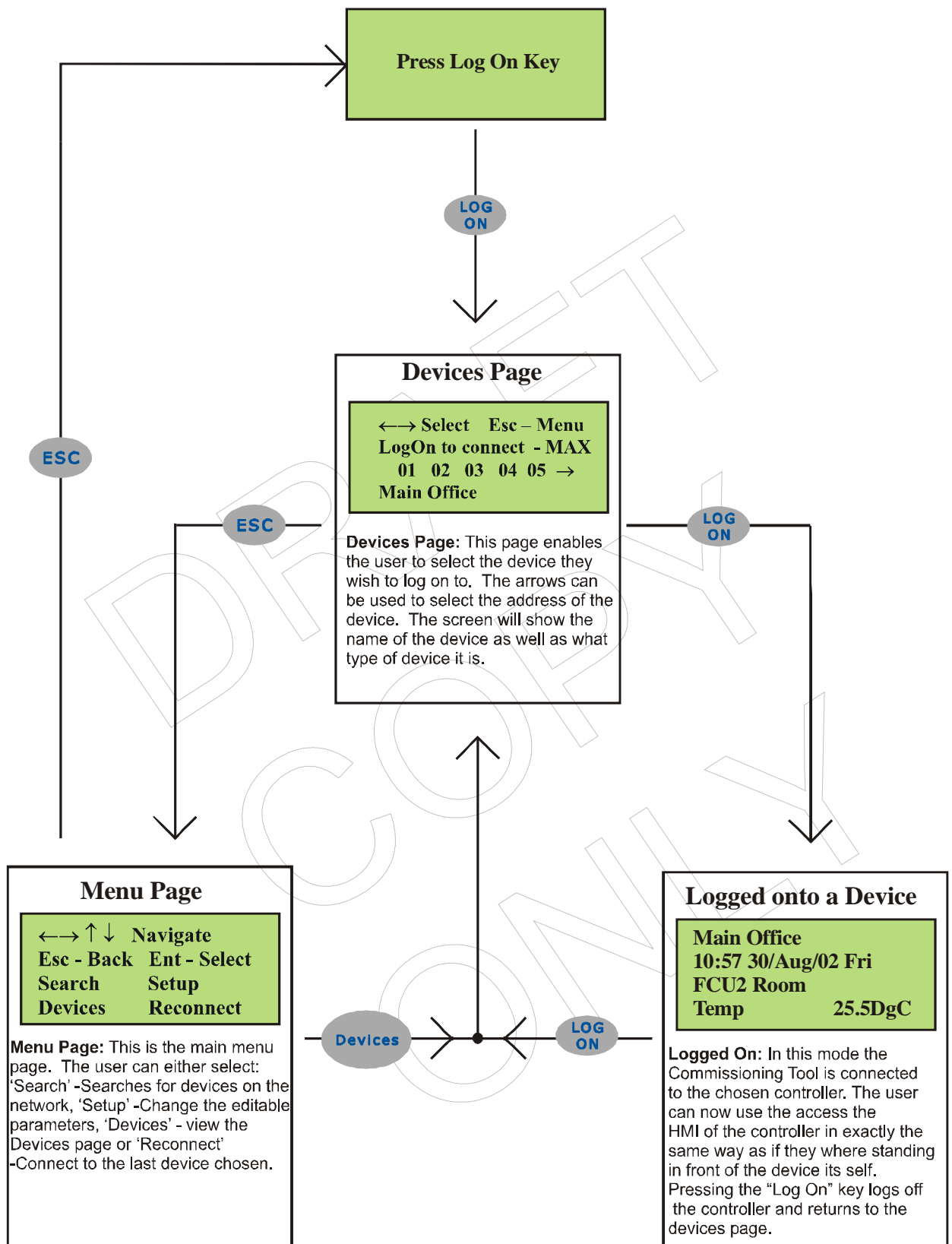
radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Modifications to this device, may void the authority granted to the user by the FCC to operate this equipment.

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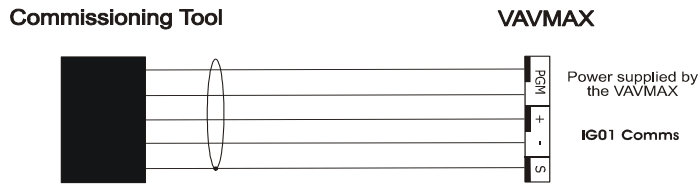
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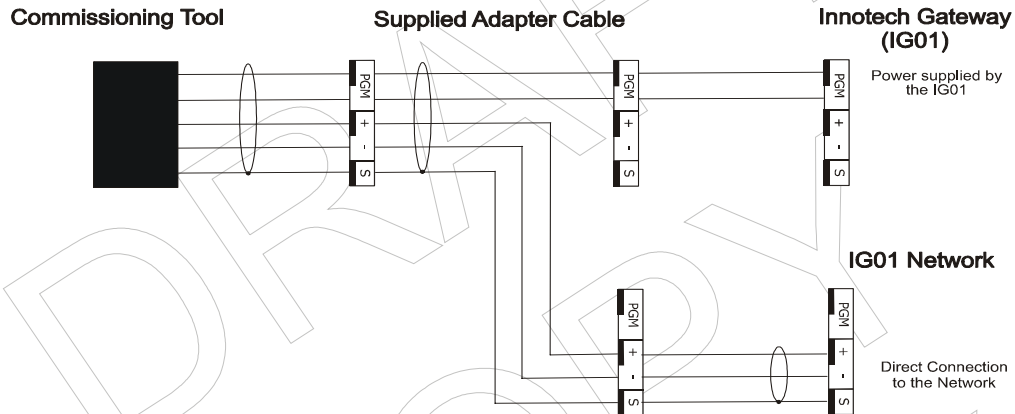
STANDARD CONNECTION

Commissioning Tool connecting directly to a VAVMAX



IG01 NETWORK CONNECTION

Commissioning Tool connecting to a IG01 network of VAVMAX 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 providing the Commission Tool direct access to the network while using the IG01 to power the Commissioning Tool.



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