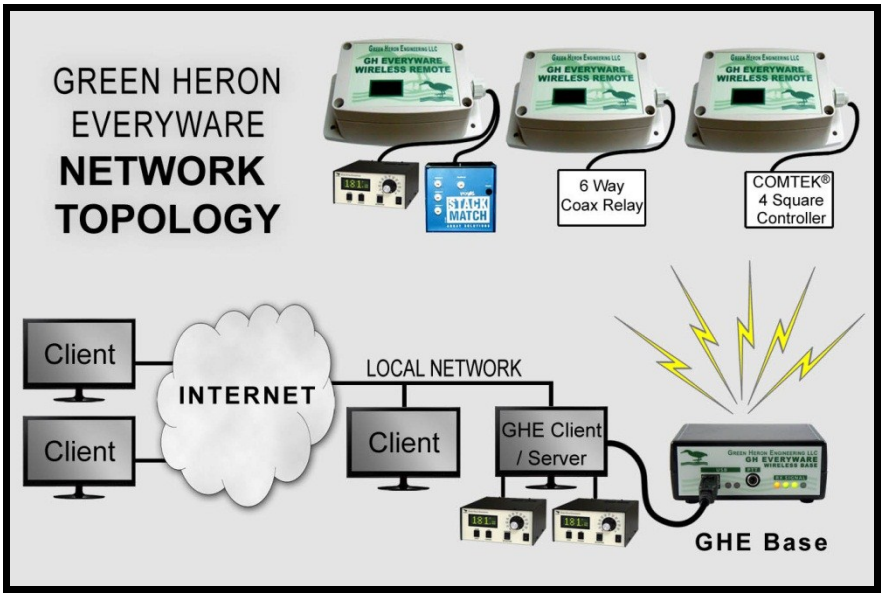
GREEN HERON ENGINEERING LLC

Green Heron "Everyware" Wireless Cable



GH EVERYWARE WIRELESS CABLE

GH Everyware Wireless Cable is a distributed network solution to any station component that uses either serial (RS-232) connections or relays. The system eliminates the use of control cables and control boxes, replacing them with a robust wireless (802.15.4) network and on-screen controls that you may customize for whatever relay control system you utilize. In addition, the system allows shared access through the use of standard IP (Internet Protocol) techniques. Any number of operator positions on separate computers, may share any or all of the switch and rotor devices under GH Everyware Wireless control AND they may also be utilized over the Internet. The system components are flexible and expandable to meet any station complexity requirement, or can be utilized as a simple USB to serial port adapter and wireless extension for any serial device.

GH EVERYWARE WIRELESS CABLE -- BENEFITS

- Allows Shared Internet/LAN IP access to any relay device
- Eliminates cables, control boxes and other clutter
- Remote wireless control of relays, rotators and other serial devices
- Create your own custom on-Screen controls
- Uses your existing computer for user controls and Network Routing
- Imbedded USB eliminates need for computer RS-232 port
- "Wireless USB → RS-232" adapter mode

GH EVERYWARE BASE

- Allows Shared Internet/LAN IP access to any relay device
- Communicates with up to 32 GHE Remotes
- Expandable by adding additional Bases on same or different computers
- LEDs for TX/RX activity, Receive Signal Strength
- Optional 8 relay outputs

GH EVERYWARE REMOTE

- 8 relay switched +12 or GND can be shared among multiple user devices
- RS-232 Serial Port, DCE/DTE jumpers
- Requires nominal 12 VDC input.
- LEDs for Power, Received Signal Strength
- Sleep Modes for battery/solar powered requirements

The System Components are:

- The GH Everyware Server is a software program that runs on any computer(s) in your network. The Server manages shared access from the GHE Controller positions, and sends commands for desired actions to the remote devices. An integrated "Local Controller" is included that has on-screen operator controls for each remote device under control. On-screen controls can be configured and customized by the user to many different configurations.

- GH Everyware Client is an optional software application that communicates with GH Everyware Server(s) over any IP network to allow shared or remote access to each device through the servers. It has the same user on-screen controls as the "Local Controller" part of GH Everyware Server.

- The GH Everyware Base is a hardware device that includes an 802.15.4 radio operating at up to 63 mw on 2.4 GHz. Connects to Server via USB, sends and receives wireless commands to GH Everyware Remotes up to 1 mile away.

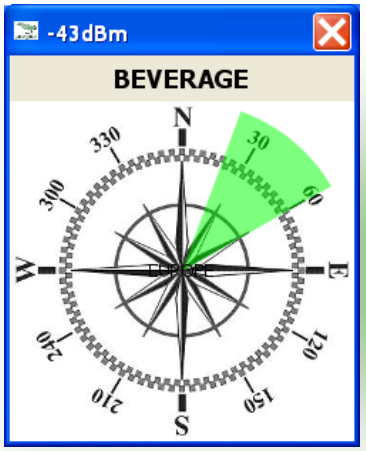
- The GH Everyware Remote is hardware device that includes an 802.15.4 radio that communicates with GHE Base. The Remote operates the end device relays and/or connects to a serial RS-232 device.

GH Everyware Remote in Weatherproof Enclosure

GH Everyware Remote with Radio Module and Connectors.

These devices are approved in most countries. Power levels may be different depending on country.

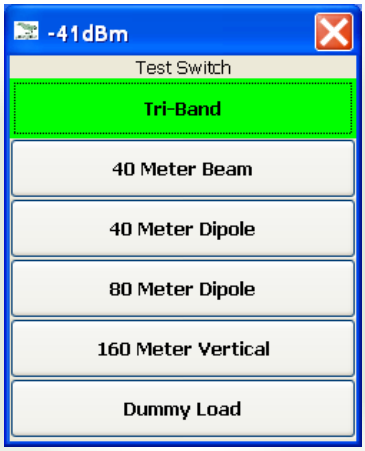
OPERATOR CONTROLS:



MAP CONTROL

Example custom switch control

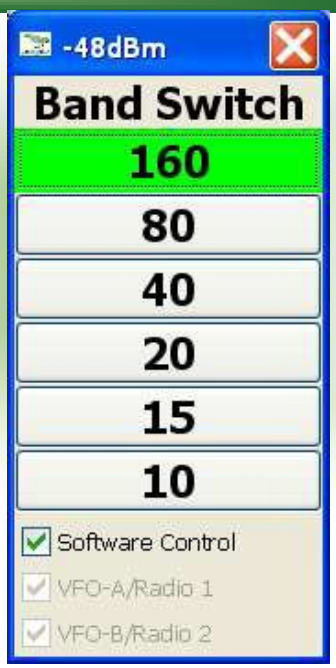
Each selection is given a heading and beamwidth for display on a compass rose, or on a user provided graphic Map. This control is used for directional switch controls.



BUTTON CONTROL

Example custom switch control

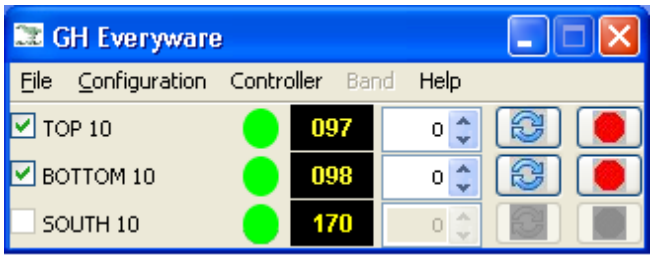
Each button is named and corresponds to a unique relay or set of relays to activate. This control is used when a named switch position needs to be assigned. Buttons may also be shown as groups of on/off relays.



BAND SWITCH

Example custom switch control

Each button is frequency named and can be manually selected and/or automatically selected based on the frequency of connected radios. The frequency is determined and communicated via logging software.



Rotors with integrated Stack Control

ROTATOR DEVICES

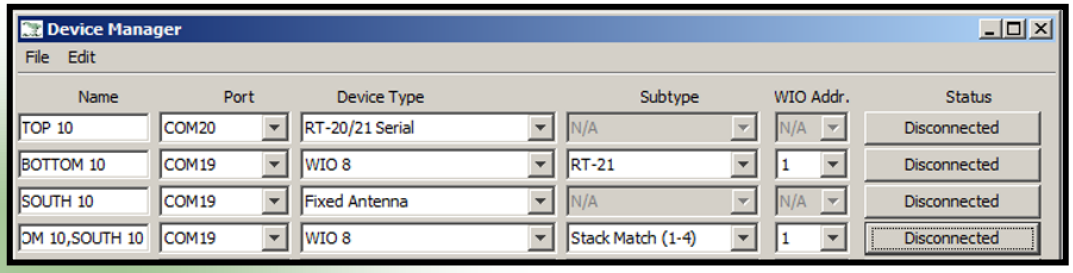
Example custom switch control

Rotators may be shown by band or all grouped together. Preset windows are available for individual rotators or one global preset window. Presets allow fast user control of rotators. Stack control relays (Stack Match etc.) may be integrated into the rotator controls for easy on/off stack selection. Rotators may also be shared and remoted via the optional Client software.

SERVER SETUP WINDOWS:

DEVICE MANAGER

GH Everyware Server device manager configures access to each device on this Server.



PROFILE EDITOR

Custom Controls are made by selecting type of display, and which relay outputs are operated (On, Off, Momentary, or Not Changed).