

## netSwitch - Remote Switch Interface Unit

netSwitch interfaces to Ethernet or 802.11 b/g wireless networks and provides remote control of up to 12 separate 15 amp relays. netSwitch can be used stand-alone (AdHoc) with any tablet/iPad/iPhone/SmartPhone or attached wirelessly to a local router (infrastructure) for network control. netSwitch is also compatible with new MiFi cellular based devices, GPRS modems, and personal HotSpots for remote internet access within coverage areas.

A Built-in Server hosts Web pages that allow user control of any of the SPST circuits. The netSwitch web pages are completely customizable using the browser interface to match any installation. All positions can be custom labeled. Current switch state is constantly monitored and shown on the browser page. Up to 16 different units can be monitored and controlled.

New Generation-2 features allow the adapter to receive commands directly from netGauges.net™ gateways over an existing Ethernet or wireless network connection. This advanced feature allows any netGauges Analog Sensor gateway to control switching relays based on sensor alarm thresholds. In addition, netSwitch can also receive commands from the HelmSmart Cloud service allowing for centralized control. The HelmSmart service can actively monitor 1000's of networked sensor signals and remotely command relays in response to trigger events.

When paired with a netGauges Analog Sensor Gateway, a complete stand-alone closed loop control system can be created. For example, a high temperature reading detected by a netGauges Gateway can create a command message to be sent over the network to a netSwitch unit to active a cooling pump.

A key feature of the netSwitch unit is the built-in 8 amp 12VDC DC-DC power supply that can operate from 6VDC to 34VDC. This provides reliable voltage to hold all relay states during momentary power interruptions and brownout conditions common when starting heavy DC loads.

The rugged water-resist design features four Deutsch style DT series plugs for secure connections and easy installation. Dual 12 lead harnesses supply the SPST circuits using 16 gauge insulated wire rated to 15 Amps at 110 VAC. A third harness adds USB port and 12VDC rated power supply inputs. A 4-pin twist-lock Conxall Mini connector provides the Ethernet interface with included mating 15' Cat5 patch cable. This design prevents cable engagement failures common with RJ45 connectors and provides enhanced environmental protection.



| Model Number  | NSENETG2                            | NSWiFiG2                            | NSWiFiPro                             |
|---|-------------------------------------|-------------------------------------|---------------------------------------|
| Interface   | Ethernet                            | WiFi – 2.4Ghz                       | WiFi – 5Ghz                           |
| Switch Inputs   | 12                                  | 12                                  | 12                                    |
| <ul style="list-style-type: none"> <li>0-24VDC 15Amps</li> <li>110 VAC 15 Amps</li> <li>220 VAC 10 Amps</li> </ul>                        |                                     |                                     |                                       |
| DC-DC Power Supply  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>   |
| <ul style="list-style-type: none"> <li>Input - 6VDC to 26 VDC</li> <li>Max Power 100 Watts</li> <li>Output - 12VDC@4Amps</li> </ul>       |                                     |                                     |                                       |
| Aux Voltage Output  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>   |
| <ul style="list-style-type: none"> <li>12VDC @ 8 Amps</li> <li>5 VDC @ 10 Amps</li> </ul>   |                                     |                                     |                                       |
| SD Memory Storage (removable)   | 4GB                                 | 4GB                                 | 4GB                                   |
| Serial Port (RS232)/USB Port  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>   |
| <ul style="list-style-type: none"> <li>Supplied weather-resist USB - 2m</li> <li>Supplied PC Instrumentation S/W for live view</li> </ul> |                                     |                                     |                                       |
| Ethernet Port (10/100 Base-T)   | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> - |
| <ul style="list-style-type: none"> <li>Supplied weather-resist RJ45 patch cable-3m</li> <li>5-pin micro Twist-lock connector</li> </ul>   |                                     |                                     |                                       |
| WiFi Port (802.11 b/g) 2.48 GHz   |                                     | <input checked="" type="checkbox"/> |                                       |
| <ul style="list-style-type: none"> <li>Supplied 6" di-pole or Optional remote Antenna</li> <li>Range of 300'</li> </ul>                   |                                     |                                     |                                       |
| WiFi Port (802.11 b/g/n) 5 GHz  |                                     |                                     | <input checked="" type="checkbox"/>   |
| <ul style="list-style-type: none"> <li>External Amplified via Ethernet (POE)</li> <li>Range of 5000'</li> </ul>                           |                                     |                                     |                                       |
| Embedded Web Server   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>   |
| <ul style="list-style-type: none"> <li>Included Web Pages for live view</li> </ul>  |                                     |                                     |                                       |
| Network Protocols   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>   |
| <ul style="list-style-type: none"> <li>TCP - Single Client</li> <li>UDP - Broadcast</li> </ul>  |                                     |                                     |                                       |
| Remote Access via Internet  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>   |
| <ul style="list-style-type: none"> <li>Direct Push to netGauges.net</li> </ul>  |                                     |                                     |                                       |
| Power Supply  | 9V-32V DC                           | 9V-32V DC                           | 9V-32V DC                             |
| Supply Current  | 800 mA                              | 800 mA                              | 850 mA                                |
| Enclosure Material  | Thermoplastic                       | Thermoplastic                       | Thermoplastic                         |
| Dimensions  | 7"x5.6"x2.15"                       | 7"x5.6"x2.15"                       | 7"x5.6"x2.15"                         |