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# Controllers

## SynQ Series Ultimate Walkthrough: Controllers, Relay & Modules

Welcome back to Feniex University. I'm Hamza, and today, after three years of development, I'm finally excited to share with you all the SynQ Series, both the three controllers, the relay, and the external modules. In this video series, we're gonna talk about the software and hardware solutions. So let's dive right in.

When you look at the three controllers of the SynQ Series, you have your SynQ S, SynQ R, and SynQ H. The S has 22 buttons and a slide switch. Your SynQ R has a rotary knob and a slide switch with 15 buttons, and your SynQ H has a built-in mic with 16 buttons.

Let's focus on what the controllers come with. Now, the SynQ H comes with a 15-foot harness and a built-in strain relief that connects directly to the controller. Your SynQ S and R come with a 15-foot network wire that connects the controller to the relay. All three controllers come with four different legend sheets, providing up to 400 different words and illustrations. While the SynQ S and R has a vertical and rear mount U-shaped bracket that comes standard in every package. And last, the 15-foot microphone is standard on every single S and R SynQ controller.

Now, moving on to the SynQ Relay, you'll notice all the supportive wires that come with the relay itself. Let's plug each one in and talk about them. Let's start with the four wires that power the 100 amps of the SynQ Relay, two red and two black. That power is distributed through the six 10-amp outputs, the 200-watt dual tone siren, and your sixteen 3-amp outputs. Now, all of that gives you 22 total 12-volt outputs.

But the SynQ system also comes with 16 serial outputs that connect to both the Q Series and Quantum products. For the Q Series products, you can connect up to two modules per port. For Quantum, you can connect up to one module per port. Now, the 16 serial ports that come standard with the SynQ Relay do not carry power. Since they're serial only, power to those devices is connected externally.

Now, controlling both your twenty-two 12-volt outputs, your 16 serial ports, or your built-in siren, of course, is your SynQ controllers or your 14 programmable inputs, both positive or negative. We can't forget the mic, the 15-foot harness that connects directly to the relay itself, extending all the way to the inner cab of the car, and your USB-C port, which is used to program the SynQ Relay from the SynQ software system.

Now, the SynQ Relay is supported by three external modules. The first is your CAN interface module. This module can read up to 40 automatic triggers, allowing the SynQ Relay to know what the state of the vehicle is. The CAN interface module, which connects directly to the relay and directly to your vehicle's CAN bus port with your vehicle-specific harness.

The second module is your vehicle synchronization module, which uses GPS timing to synchronize your entire fleet of vehicles all flashing in sync.

Last is your serial expander module, which takes one of the 16 serial ports from the SynQ Relay and expands it to 16 additional serial outputs. What's great about this, too, is that it also carries the power for every Q Series module that you wish to connect to that expander port itself.

So that concludes the overview of the hardware of the SynQ Series, from the controllers to the relay to the external modules and the supportive hardware that comes with the system. Watch the additional videos that share with you how to program and configure the system using the software program. Stay tuned.

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