

# JUICE GOOSE™

## CQ-1520 (TM) SEQUENCED POWER CONTROL SYSTEM



### GENERAL DESCRIPTION

The Juice Goose CQ-1520, along with the other products in the CQ Series, provides a versatile and powerful means of remotely activating AC power in a sequenced array for application to both sensitive and high amperage equipment. CQ Series products need no additional controllers. Each contains the circuitry to be activated by a simple contact closure and to perform in coordination with other CQ devices. All power down sequences are exact reversals of the power up sequences.

### OPERATION

The CQ-1520 is a 20 amp, rack mount, plug-in model featuring seven AC power outputs. This is a three sequence event device that can be a stand-alone, remote control module or can be included with a more extensive power sequencing system. In a typical CQ system the CQ-1520 is used to control power to the signal source or "front-of-house" equipment before power is applied to amplifiers. In this configuration the CQ-1520 is connected by way of six wire modular phone cable to another CQ device. No time delay settings or additional equipment are required. All CQ units will automatically turn on and off in the proper sequence. Because the CQ-1520 has a 20 amp capacity it requires a NEMA 5/20R AC receptacle for connection of the power cord to the main AC power.

The CQ-1520 features three sequenced duplex receptacles and one unswitched single AC receptacle. Each duplex has its own preset turn on and off timing. Because the CQ-1520 activates its outlets in three stages it is useful as a stand-alone sequencer. Signal source and processing equipment can be powered by the first sequence stages while amplifiers are powered by the last ones. The CQ-1520 can be triggered by the switch on the front of the unit, by a remote contact closure or by a Juice Goose RC-5 key switch.

### CONTROL LINE CONNECTION

All CQ products can be easily controlled by way of either 8 wire, RJ-45 or 6 wire RJ-12 cable. Each CQ has a Sequence Signal Input and Output connector on the chassis. This communication link allows any CQ device to be installed at any stage in a power sequencing system. There is no limit to the number of CQ devices that can be connected and no known distance limit between them.

Because the sequence process is controlled with a latching contact closure, the system can be activated with a custom mounted single pole switch, a relay, the control switch on the CQ device itself or a Juice Goose RC-5 key switch control accessory. It can also be activated with controllers from Crestron, AMX and other manufacturers.

## CONTROLS AND MONITORS

The CQ-1520 features a two position switch on the front of the chassis. This switch is active only if there is no control cable on the Sequence Signal Input connector. When active, this switch allows the unit to sequence up or sequence down and to control the sequencing of any unit connected to the Sequence Signal Output connector. A Manual Override switch allows the CQ-1520 to be manually operated, overriding the control circuit in the unlikely event of a fault or failure.

Lights on the front of the chassis allow monitoring of the unit operation. The PROCESSOR light will blink to indicate the control processor on the unit is functioning. The POD lights are illuminated as a result of contact closure by the CQ relays, indicating that actual relay closure has occurred.

## DETAIL SPECIFICATIONS

Chassis.....	16 gauge steel with 11 gauge rack mount brackets
Dimensions.....	1.75"H x19"W x 7"D
Weight.....	10 lbs
Circuit Breaker.....	20A thermal on back of the chassis
Relay Current Rating.....	30A
Number of Sequence Events.....	Three
Power Input.....	Power cord with NEMA 5/20P connector (NOTE: Requires a 5/20R receptacle.)
Power Output.....	Six NEMA 5/20R, sequenced & one NEMA 5/15R unswitched
Input Voltage.....	US standard (120 VAC @60Hz)
Signal Connections.....	Either RJ-45 eight wire or RJ-12 six wire cable
Monitor Features.....	Monitor lights correlate to processor and relay operation

See the other Juice Goose power sequencers: CQ-2000, CQ-2200, CQ-3000 and CQ-PDI-4

## FOR MORE INFORMATION

JUICE GOOSE  
Houston, Texas  
Phone: 713-772-1404  
juicegoose.com

