



CV-120RS  
2.25" X 3.15" X 4.15"H



CV-230-AFN  
1.50" X 2.15" X 3.65"L

**Single Phase Under/Over Voltage Monitor**

The **CV-120** and **200 Series** are **Under/Over Voltage Monitors** combined with short cycle protectors used for **appliance control**. These units employ a user selectable voltage range Set Point switch.

**OPERATION**

For the **CV-120RS** - Using a screwdriver, carefully adjust the Under Voltage Setpoint Adjustment according to equipment to be protected. If the monitored output has been 0 for at least 3 minutes with only normal supply conditions, it will energize the output after 3 seconds. During those delays, the STANDBY CYCLE indicator will be lit if power is present and the power switch is set to On. When a voltage fault occurs or the power switch is set to Off, the monitor will de-energize the output and the 3 minute delay begins. If a fault has occurred, the corresponding indicator will be lit. Once the supply voltage returns to normal or the switch is set to On for longer than the 3 minute delay, the STANDBY CYCLE indicator will be lit, and the 3 second delay cycle will begin. After the delay period, the monitor will energize the output and the NORMAL VOLTAGE indicator will be lit.

For the **CV-200RS-XX** - The voltage range switch should be positioned to match the line voltage for proper operation. When the line voltage goes below (brown out) or above the preselected operating range, the internal relay drops out removing the plugged-in appliance from these adverse fault conditions. When the voltage returns to the normal operating range, a five (5) minute delay begins. Upon completion, the internal relay picks up allowing the plugged-in appliance to start. LED indicators give an immediate visual reference as to the status of the control. The GREEN LED indicates conditions are normal. When a fault condition occurs the GREEN LED will extinguish and the RED LED will glow. When a fault condition has been corrected, the RED LED will begin to flash. The RED LED will continue to flash until the five (5) minute delay period elapses. At the end of the delay period the RED LED will extinguish and the GREEN LED will glow. When both LEDs are extinguished, a total loss of power is indicated.

The **CV-XXX-AFN** Series monitors under voltage only and do not feature LED indicators. They also incorporate the five (5) minute short cycle delay. This style is epoxy encapsulated to protect against adverse environmental conditions.

MODEL NUMBER	SET POINT	VOLTAGE 50/60 HZ	UNDER VOLTAGE		OVER VOLTAGE		OUTPUT RATING		RECEPTACLE STYLE	WEIGHT
			DROP OUT	PICK UP	PICK UP	DROP OUT	RUN	LOCK ROTOR		
CV-120RS	110	110 VAC	90 - 105 VAC	105 VAC	140VAC		15A			5.5 oz
CV-200RS-15	230	230 VAC	190 VAC	198 VAC	243 VAC	253 VAC	15A	52A		8.5 oz.
	240	240 VAC	202 VAC	210 VAC	258 VAC	268 VAC	15A	52A		
CV-200RS-20	230	230VAC	190 VAC	198 VAC	243 VAC	253 VAC	20A	72A		8.5 oz
	240	240 VAC	202 VAC	210 VAC	258 VAC	268 VAC	20A	72A		
CV-120-AFN	N/A	120 VAC	95 VAC	103 VAC	N/A	N/A	20A	52A	Not Applicable 1/4" quick disconnect terminals	8.5 oz.
CV-230-AFN	N/A	230 VAC	190 VAC	198 VAC	N/A	N/A	20A	52A		
CV-240-AFN	N/A	240 VAC	202 VAC	210 VAC	N/A	N/A	20A	52A		