

# Voltage Control Unit



The basic function of the Voltage Control Unit is to control the Input Voltage to the equipment attached to it protecting the Power Supply due to Over Voltage at the Input of The Power Supply. The microcontroller incorporated in the ATS-WC1.1 constantly monitors the Mains Input Voltage at its input instructs the electronics circuit associated with it and there by limiting the input to the Power Supply avoiding any damages due to Over Voltage at AC Mains. The ATS-WC1.1 is equipped with the electronics which can withstand and work over a wide input range from 70VAC to 500VAC. The ATS-WC1.1 is provided with LED indications giving the complete status. (i.e. Under Voltage, Over Voltage and Mains OK.) The ATS-WC1.1 has features\* such as providing additional outputs to control the external devices like Pumps, any electronics circuitry and/or Equipment protecting these equipments from damages due to High AC Mains Voltages and at the same time can be programmed to keep the Mains Voltages Activity Log\*, Helps in logging down the details of Mains Voltage Highs and Lows with time details.

## Features:

- Microcontroller based circuitry with reliable components used.
- Sleek and compact design requires small space comparing with features included.
- Wide Input Voltage Range( From 70V AC to 500V AC).
- LED indications at conspicuous place enables to know the AC Mains Voltage conditions such as Under Voltage, Over Voltage and Mains OK.
- Additional provisions possible to control the external equipments and Mains Voltages Data Logging\*.

\*Optional feature: To control external circuitry from High AC Mains Voltage,

## Voltage Control Unit Specification Sheet

PCB Name/ Description : ATS-WC 1.1 / Voltage Control Unit

### INPUT

Description	Output
AC Input Voltage	230V AC
AC Input Voltage range	70V TO 500V AC
AC Input frequency	50Hz to 60Hz
Primary current protection	NTC

### OUTPUT

Description	Single Output
Under Voltage Cut off	130VAC +/- 5V
Over Voltage Cut off	280VAC +/- 5V
Under Voltage Hysteresis	15V +/- 2V
Over Voltage Hysteresis	15V +/- 5V
O/P Indication - Mains Voltage Low	Red LED
O/P Indication - Mains Voltage Ok	Green LED
O/P Indication - Mains Voltage High	Red LED

### MECHANICAL

Description	Output
Dimensions	115mm X 125mm X 33mm
Weight	Approx 400gms
I/P plug Type	MKDS Type Screw Terminal
O/P plug Type	MKDS Type Screw Terminal

### ENVIRONMENT

Description	Output
Operating temp	Upto 75 deg.C at full load

### SAFETY

Description	Output
Insulation Resistance	1kV for 1min
Operating temp	Upto 75 deg.C at full load