

# ATS-01

## Programmable Automatic Transfer Switch (ATS) Controller

### User-Friendly Instrumentation & Protection

#### Features

- Micro-Processor Based Design
- Compact Size with User-Friendly LED Display
- Simple Push Button Programming & Operation \*
- Provides 3 or 1 Phase Volt. / Freq. Monitoring & Protection For Both Normal & Emergency Sources
- Transfer Fail Alarm, Pre-exerciser or Pre-transfer Signal Output
- Remote Engine Start Signal
- Built-in Weekly Exerciser Timer
- No Generator Battery Connection Needed\*\*

\*There is no need for PC connection or software--all operation can be done directly on ATS-01 front panel.  
\*\*Program settings are auto-saved into memory and will remain saved even when power is disconnected.



#### 4 Digit 7 Segment LED Display

- Programmable display with 3 phase voltage & frequency
- Internal program settings & status display
- TDEN, TDNE & TDEC real time countdown display

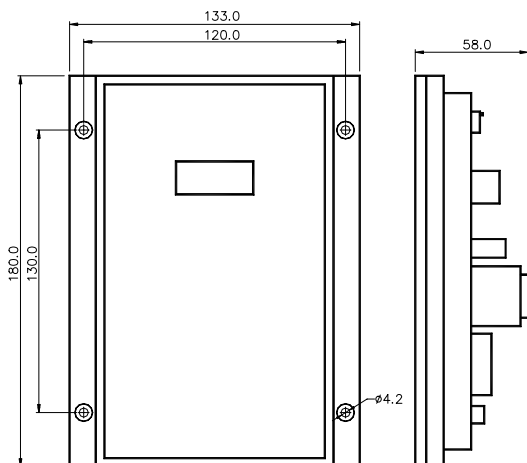
#### User-Friendly Status LED Display

- Display AUTO/TEST Status
- Over / Under Volts & Freq. ( Both Normal & Emergency)
- Display Real Time Power Loop

#### All Phase Voltage & Frequency Monitoring

- Over Voltage adjustable range 110 ~ 550 VAC
- Under Voltage adjustable range 80 ~ 470 VAC
- Over Frequency adjustable range 51 ~ 70 Hz
- Under Frequency adjustable range 45 ~ 59 Hz

#### Mechanical Specifications



#### Specifications

|                              |                                 |
|------------------------------|---------------------------------|
| Input Control Voltage        | 160 ~ 250 VAC 50/60 Hz          |
| Voltage Measurement Range    | 80 ~ 550 VAC 50/60 Hz           |
| Frequency Measurement Range  | 45 ~ 70 Hz                      |
| Generator Start Relay        | 7A @ 250 VAC Max                |
| Transfer to Normal Relay     | 7A @ 250 VAC Max                |
| Transfer to Standby Relay    | 7A @ 250 VAC Max                |
| Alarm output Auxiliary Relay | 0.5A @ 120 VAC<br>1.0A @ 24 VDC |
| Operating Temperature        | -20 ~ 70                        |
| Storage Temperature          | -35 ~ 85                        |
| Operating Humidity           | 95% Relative Humidity           |

#### Adjustable Timers

|                              |              |
|------------------------------|--------------|
| TDNE                         | 0 ~ 300 sec. |
| TDES                         | 0 ~ 60 sec.  |
| TDEN                         | 0 ~ 300 sec. |
| TDEC                         | 0 ~ 300 sec. |
| Pre-transfer Signal          | 0 ~ 99 sec.  |
| Pre-exerciser Signal         | 0 ~ 99 sec.  |
| Engine Exerciser Test Period | 0 ~ 60 min.  |

\*Panel Installation Cut-Out:  
112.0 ± 0.5 mm x 167 ± 0.5 mm