DSE 8660 AUTOMATIC CONTROL PANEL WHICH HAS THE CONTROL OF VARIOUS SETS STANDBY TO THE MAINS.

- PROTECTION, DISTRIBUTION AND AUTOMATIC CONTROL panel with DSE 8660 which is an automatic transfer switch and mains (utility) control module, designed to automatically synchronise multiple DSE 8610s with single or multiple mains (utility) supplies. The module DSE 8660 instructs the DSE 8610s to make precise changes to the gen-set outputs, and provides sophisticated monitoring and protection functionality making the system ideal for a wide range of load sharing applications including peak lopping, peak shaving and no-break return.

- The module will monitor multiple mains (utility) supplies, and upon removal or failure detection of the mains supply will automatically start or stop the gen-sets being controlled by DSE 8610s. The modules operational status is indicated on the LCD display and the front panel LEDs.

It has the following:

1. **EMERGENCY STOP PUSHBUTTON**

2. **PROTECTIONS:**
   - Circuit breaker switch (preheating resist.) 2P (16 A)
   - Protection fuses for control module
# DSE 8660 Automatic Control Panel

**DSE 8660 Control and Protection Control Module.** It has a digital LCD screen, which provides easy reading of the information regarding the Common Bus Bar, Mains and Charging.

## Readings that can be made:

### Mains:
- Frequency
- Phase rotation order
- Voltages between phases and neutral (L1-N, L2-N, L3-N).
- Voltages between phases and (L1-L2, L2-L3, L1-L3).
- Earth current

### Charge
- Voltages between phases and between phases and neutral.
- Intensities
- Frequency
- Active Power (kW)
- Reactive Power (kVar)
- Apparent Power (kVA)
- Cos phi
- Active energy meter (kW-h)

### Control of the sets:
- STARTS and STOPS the GROUP of sets AUTOMATICALLY when mains failure is detected and when it is restored, respectively.
- It can also operate MANUALLY.

### Protection of the Common Bus Bar, with the alarms activated:
- Low and High Voltage
- Low and High Frequency
- Overload due to Intensity (A)
- Short-circuit
- Negative Phase Sequence.
- Power Overload (KW-kVA)
- Load control:
  1. Connection and disconnection of artificial loads.
  2. Disconnection of non-essential loads
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MAINS:

- Low and High Voltage
- Low and High Frequency

OTHER CHARACTERISTICS:

- The real-time clock provides an exact record of events.
- Extensive number of configurable inputs and outputs.
- Configurable alarms and timers.
- USB connectivity
- Fully configurable via software and PC.
- Modbus RTU
- SMS text messages
- Communications Ethernet, RS 232 and RS 485
- Scheduler Clock with multiple maintenance events which can be configured for the optimal operation of the engine. Weekly and/or monthly programming of up to 16 starts and stops per week.
- ALTERNATIVE CONFIGURATIONS, which open up the working possibilities

DISTRIBUTION:

- POWER TERMINALS