

Keystart & Auto Start Modular Control Panels 100I/200I/400I Series

The Gentec range of MODULAR CONTROL PANELS have the same dimensions, use identical mountings and cable harness sockets, and hence are fully interchangeable. This means that all Gensets equipped with these panels can be retrospectively upgraded. The 100I Series is a Keystart Control Panel fully equipped with all the necessary instruments and protection devices but no optional features are available. The 200I, 400I and 400IE panels allow the Generator to be automatically controlled by a remote signal (2 wire control) and are therefore suitable for controlling a standby generator set in conjunction with an automatic transfer switch.

A wide range of options is available.



STANDARD SPECIFICATIONS

CONTROL SYSTEM

The heart of the control system is a family of printed circuit boards (PCB's). These only use circuit elements that have been tried and tested in the field. During manufacture every PCB is tested at least three times; Once after initial manufacture, once after being fitted in the control panel and finally during the test of the complete generator set. This ensures total control system reliability. If it is necessary to replace a PCB, this is easily and quickly done as all connections are via multi pin plugs & sockets.

INSTRUMENTATION

All AC instruments are 90° deflection, 72mm square, flush mounting and comply with the following standards: IEC51m 414 and 529, DIN 57410 and 43700/43718, C42-100 and 42-010, BS89 and BS5458 and UL94. All engine gauges are automotive type 52 mm diameter and are electrically operated.

SWITCHES

All switches and pushbuttons are of the heavy duty industrial type.

WIRING

The internal AC and DC control panel wiring harnesses are pre-formed before fitting. Connections to the PCB are by multi pin plugs & sockets.

UPGRADABILITY

As this family of control systems is modular, a simple and low cost upgrading route is at all times available by means of panel exchange and/or additional controls & instruments.

PANEL CONSTRUCTION AND FINISH

Heavy-duty sheet steel with a hinged, lockable door. All metal work fully degreased, zinc phosphated and chromated for anti-corrosive protection prior to painting with polyester powder. The powder is cured at temperatures of 200°C to ensure a high degree of scuff resistance and durability. The fascia label is made from laminated plastic. A wide range of languages is available including French, German, Spanish, Portuguese, etc

MOUNTING

The panel is mounted off the Genset base frame on a vibration isolated robust steel stand.

STANDARD FEATURES

		100I	200I	400I	400IE
Instrumentation	Voltmeter	•	•	•	•
	Ammeter	•	•	•	•
	Combined Frequency & Tachometer	•	•	•	•
	Hours Run Counter	•	•	•	•
	Coolant Temperature Gauge	•	•	•	•
	Lube Oil Pressure Gauge	•	•	•	•
	Battery Condition Voltmeter	•	•	•	•
Controls	Keyswitch Off/Run/Preheat/Start	•			
	Run/Off/Auto Switch		•	•	•
	Lock Down Stop Button		•	•	•
	Engine Preheat Pushbutton		•	•	•
	Lamp Test/Reset Pushbutton		•	•	•
	7 Pos Voltmeter Phase Selector Switch	•	•	•	•
	4 Pos Ammeter Phase Selector Switch	•	•	•	•
	3 Attempt Start Timer		•	•	•
	Cooldown Timer			•	•
Shutdowns with Individual Warning Lamps	Fail to Start		•	•	•
	High Coolant Temperature	•	•	•	•
	Low Lube Oil Pressure	•	•	•	•
	Overspeed		•	•	•
Alarms with Individual Warning Lamps	Approaching Low Oil Pressure				•
	Approaching High Engine Temperature				•
	Low Battery Voltage			•	•
	Battery Charger Failure				•
	Control Switch not in Auto Mode				•
Remote Signals / Contacts from Panel	Interface to Remote Annunciator			•	•
	Terminals for Remote Emergency Stop		•	•	•
	Common Fault Alarm Signal		•	•	•
	Volt Free Contact Contacts for:				
	Generator Running			•	•
Common Fault Alarm Signal				•	

In line with our policy of continuous product development, we reserve the right to change specification without notice.

