The Gas Turbine Remote Control Panel provides remote control interface of the local unit control. Operator command capability and display screens are identical to the screens on the unit control with limited additions for load and voltage control. Applications include remote control of any triple redundant Mark IV SPEEDTRONIC™ control system or single channel SIMPLEX system on any frame size gas turbine.

A panel mounted printer is available to copy CRT screens and provide a means of recording alarm logs and historical data.

An operator interface is provided with a 14 inch CRT and dedicated membrane switches to initiate commands. This responsive interface displays all data in operator friendly units, and automatically changes displays according to the current status of the gas turbine. Data can be selected from menu driven displays such as the wheelspace temperature display or selected on an individual basis without losing sight of the general turbine operation.

An alarm management system time tags all alarms with 1/8 second resolution, and flashes any new alarm messages until the alarm is manually acknowledged by the operator. Up to 256 alarm messages can be stored in the data base with 32 displayed at any given time. Separate diagnostic alarm management is provided to monitor the health of the remote control system.

Common hardware is provided in the Remote Control Panel and the Local Control Panel to minimize spare parts requirements and maintenance costs. In addition, the Control System Elementary provides a user friendly document to define the software and hardware interface for the entire control system including remote control.

The Remote Control Panel provides a responsive, integrated operator interface to the local control system with many years of field service at sites throughout the world.
THE OPERATOR INTERFACE

(A) DISPLAY MODE Group
A. NORMAL – Selects the Startup, Running and Shutdown displays which show all key operating parameters in friendly units.
B. DATA – Selects a menu of I/O maintenance and diagnostic displays.
C. RESET – Selects a trip reset display.
D. ALARM – Selects the System and Diagnostic alarm queues with time tagged messages.
E. MAN CTL – Selects a series of Manual Control displays for control of functions such as inlet guide vanes.

(B) EXECUTE
The execute pushbutton must be pressed after initiating an operator command in the yellow block of pushbuttons.

(C) DISPLAY Keypad
This set of characters is used to select numbered displays or data base points by name or address.

(D) ALARM Group
These pushbuttons are used to SILENCE and RESET alarms.

(E) PRINTER Group
These pushbuttons are used to COPY CRT screens to a panel mounted printer, and initiate a HISTORY log printout.

(F) DISPLAY CURSOR Group
These pushbuttons position the cursor on applicable displays.

(G) OPERATOR SELECTOR
This is a 7 x 4 matrix of operator pushbuttons which require a subsequent execute command to initiate the command, and result in a red LED indication when the control status changes.

(H) EMERGENCY STOP
This maintained pushbutton initiates an emergency trip independent of the processors.

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