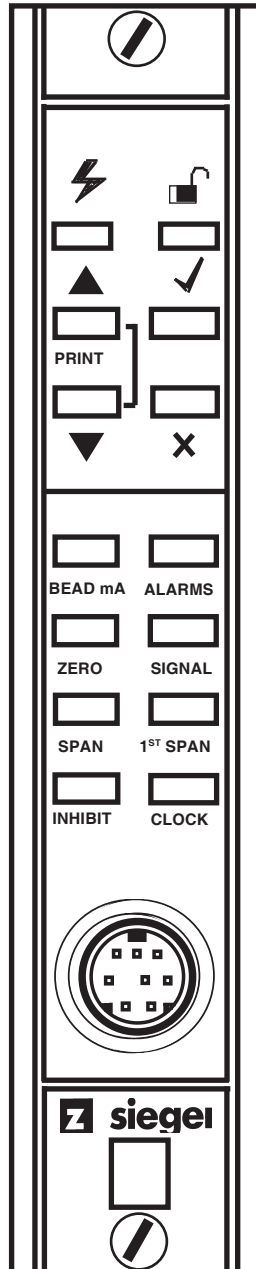


# CHAPTER 2 - SYSTEM DESCRIPTION

## 6. ENGINEERING CARD

The Engineering Card (Part Number 05701-A-0361) is used on a System 57 rack to provide a common interface that enables the user to perform all the required functions to commission and operate each fitted control card.



The front panel is fitted with a series of tactile push-buttons for the operation of various functions, LEDs to provide rack power and communications status and a mini DIN socket for the connection of a serial printer, computer or an engineering key. The Engineering Key is used to unlock functions that can alter the operation of a control card.

The Engineering Card is always fitted into the right-hand slot of the rack and provides:

- a. Routing of the 24V dc input from the DC Input Card to the backplane of the rack.
- b. A backplane serial communications controller and monitor.
- c. A time and date reference.
- d. An RS232 external engineering interface.
- e. Depending upon the security level, the operation of the following rack facilities:
  - Catalytic sensor head current monitoring and adjustment.
  - Alarm set point checking, adjustment and testing.
  - Sensor signal zero adjustment.
  - Sensor signal span adjustment and setting of sensor life monitoring values.
  - Sensor line monitoring.
  - Enabling of control card alarm inhibit.
  - Checking and adjustment of the system clock.
- f. Self validation of the operation of its circuit components, software operation and the backplane communications.