V6000/G Gateway card
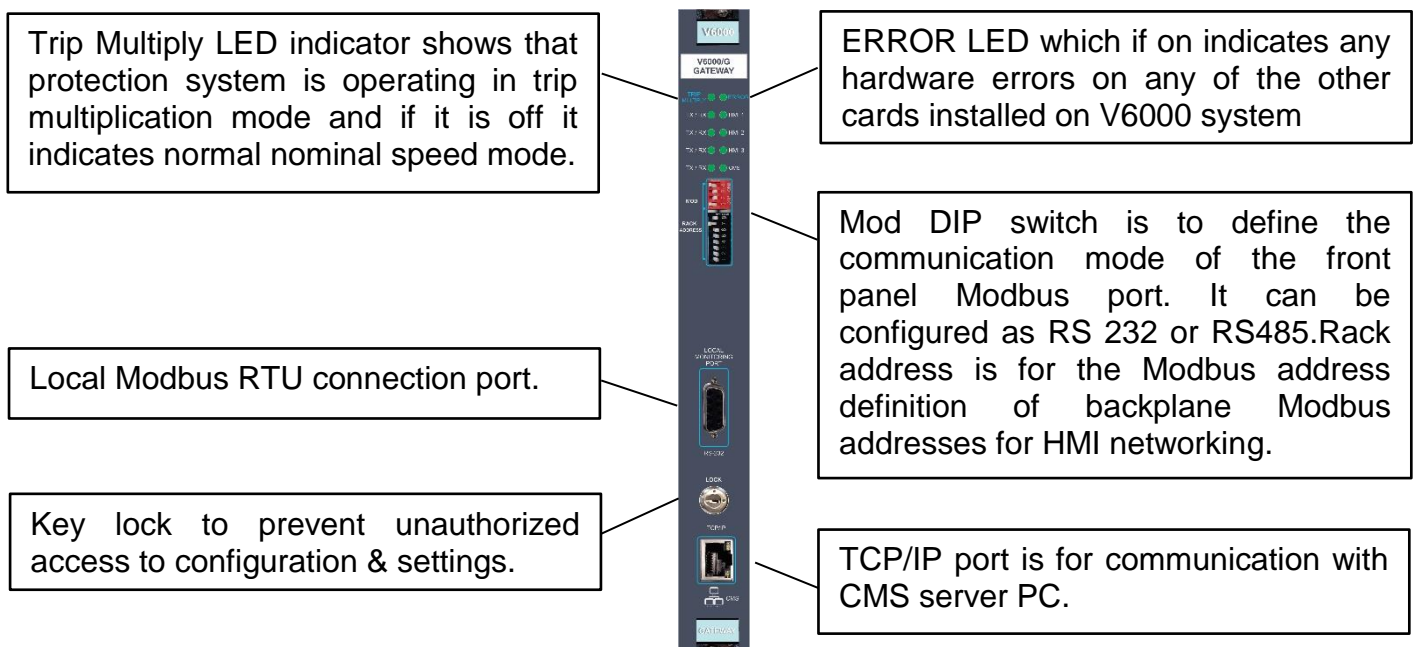
Gateway card is responsible for communications of each V6000 protection system with outside world. There are four connection ports available for each gateway card. Three of them are Modbus RTU protocol to interface with local display, remote PLC/DCS systems and HMI panels and there is one TCP/IP Ethernet port for data transmission to condition monitoring software installed on server PC. Server can share these gathered data to client PCs on a different network. Two control inputs are available on V6000/G card rear panel:

• General Reset: This to reset (clear) & bypass all the active (latched) relays

• Trip Multiply: To selectively increase the alarm & trip levels by a user definable multiplying factor

Trip Multiply LED indicator shows that protection system is operating in trip multiplication mode and if it is off it indicates normal nominal speed mode.

ERROR LED which if on indicates any hardware errors on any of the other cards installed on V6000 system

Mod DIP switch is to define the communication mode of the front panel Modbus port. It can be configured as RS 232 or RS485. Rack address is for the Modbus address definition of backplane Modbus addresses for HMI networking.

Local Modbus RTU connection port.

Key lock to prevent unauthorized access to configuration & settings.

TCP/IP port is for communication with CMS server PC.

V6000/G Front Panel Elements