

## 6160VPADT

The 6160VPADT keypad contains several functions, such as keypad, panel interface, and LCD display, please refer to the Block Diagram ( EXHIBIT 2-2 ), and the Schematic ( EXHIBIT 2-3 ). The MICROPROCESSOR U3 of the main board controls all functions between the DISPLAY MODULE, KEYPAD KEYS, ALARM CONTROL PANEL. The 13.56 MHz card reader circuit board is a stand alone Prox card reader that outputs Honeywell / Ademco ECP proprietary data format directly to the ECP lines. The card reader is programmed to look like another keypad in the alarm panel system. In the presence of a valid prox card the card reader toggles the ARM / DISARM commands to the panel via the ECP Lines. The card reader functions as follows: Microprocessor U3 of the prox card controls all card reader functions. YL1 is the system clock and the FDE for 13.56 MHz field. Q3 functions as a PA stage and excites the antenna: ANT1 CR7, CR8 & Q2 function as a detector to demodulate the backscatter signal from the RFID Card. U6 acts as a level shifter for the demodulated signal so it can be processed by microprocessor U3. U5 conditions the microprocessor data in and data out data lines to be compatible with the ECP line levels. The 6160VP meets all the requirements of a "Class B digital device" as well.