

Electrical Specifications

Operating Voltage: 32VDC-42VDC

Operating Current:

150mA typical w/ no outputs ON 20A maximum with all outputs ON

- 8 discrete inputs 36VDC = active
- 1 pair of external shunt inputs 0-300mV input range
- 1 RJ11-6 Keypad connector (connect to 742746 Keypad using 6 conductor reversed RJ11 cable)
- 1 RJ11-6 Laptop connector (connect to 742737 RS232 Adapter using 6 conductor reversed RJ11 cable)

742739 Recycle I/O Board Connector 1 9+2 pin connector

- 6 Relay outputs 36VDC = active gang fused at 7,5A
 Contact rating: 400,000 operations at 4A resistive load or 2A inductive load (L/R=8ms)
- 1 bi-directional brush actuator dual output Solid state, current limited H-Bridge rated at 36VDC, 7.5A max. PWM speed control optimized for actuator PN DF36-10W51-02L01MM

Overload shutdown at 25° C: Under 1 sec. = 9.5A never = 7.5A max heatsink temp - 100° C before shutdown

1 bi-directional squeegee actuator dual output Solid state, current limited H-Bridge rated at 36VDC, 4A max. PWM soft-start optimized for actuator PN SL36-17A8-03 Overload shutdown at 25°C:

Overload shutdown at 25° C: Under 1 sec. =6.4A (7.5A) never = 4.0A(4.75A) (x) = with Heavy Load Jumpers Shorted

1 water pump motor output 36VDC, 4A max output - PWM speed control

Minuteman International, Inc.

3800 Rider Control Board

Revision D

Board Features

- Fully optoisolated
- Current Limited Solid State Actuator Outputs
- Microcontroller driven
- Over-temp shutdown
- PC based adjustments and Diagnostics
- 4kbit Non-Volatile memory
- Closed-Loop Brush Pressure Control with 3 settings
- Optional Recycle/Chemical Pump Control
- Isolated External Keypad Interface
- Watchdog timer

<u>Diagnostic LEDs LED2&4 Brush actuator, LED1&3 squeegee actuator operation</u>

Green ON = operating normally

Red 1 blink pattern = Output wire shorted to +36V resets automatically in 13 seconds

Red 2 blink pattern = Output wires shorted together resets automatically in 13 seconds

Red 3 blink pattern = Output wire shorted to Gnd resets automatically in 13 seconds

Red 4 blink pattern = Board Overheated resets automatically in 13 seconds

Red On Solid, Green On Dim = actuator Overcurrent reverse footpedal direction to reset

Red/Green Alternating Blink = board is resetting