EMRI-3 Jumper Settings

Jumper settings for EMRI-3 Reader Controller board.

Jumper Position/Name:

10	9	8	7	6	5	4	3	2	1
MCLEAR	TESTMODE	J8	J7	J6	J5	J4	J3	J2	J1

All modes:

J7	J6	Baud Rate for both COM channels
Off	Off	115200
On	Off	38400 (EMRI-2 compatible)
Off	On	19200 (EMRI-2 compatible)
On	On	9600

Operations Mode:

Testmode	J8	J5	J4	J3	J2	J1	Description
Off	Off						Weigand Reader Mode
Off	On						Magnetic Stripe Reader Mode
Off		Off					Debug Silent Mode
Off		On					Debug Verbose Mode
Off			Off	Off	Off	Off	Output State Display mode.
Off			Off	Off	Off	On	Low Contacts Display mode.
Off			Off	Off	On	Off	High Contacts Display mode.
Off			Off	Off	On	On	Output Energized Display mode.
Off			Off	On	Off	Off	Contact #13 Analog Value mode.
Off			Off	On	Off	On	Contact #14 Analog Value mode.
Off			Off	On	On	Off	Contact #15 Analog Value mode.
Off			Off	On	On	On	Contact #16 Analog Value mode.

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Test Mode:

Testmode	J8	J5	J4	J3	J2	J1	Description
On	Off						Weigand Reader Mode.
On	On						Magnetic Stripe Reader Mode.
On		Off	Off	Off	Off	Off	Low Contacts Display Mode.
On		Off	Off	Off	Off	On	High Contacts Display Mode.
On		Off	Off	Off	On	Off	Output Test Mode.
On		Off	Off	Off	On	On	Reader 1 Output Program Mode.
On		Off	Off	On	Off	Off	Reader 2 Output Program Mode.
On		Off	Off	On	Off	On	Add Card Mode.
On		Off	Off	On	On	Off	XPORT Communications Mode.
On		Off	Off	On	On	On	Set Date and Time Mode.
On		Off	On	Off	Off	Off	Factory Reset Mode.

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Terms:

When using as a substitute for an EMRI-2 board, select the proper baud rate (38400 or 19200) and remove jumpers 8 and 1 – 5.

Debug Silent Mode – no debugging messages are sent to either COM port.

Debug Verbose Mode – debugging messages are sent to the COM2 port.

Output State Mode – LEDs 1 – 4 reflect the UNLOCKED state of RELAYS 1 – 4, LEDs 5 – 8 reflect the UNLOCKED state of TRANS 1 – 4. (Failsafe outputs that are energized are shown as LOCKED)

Output Energized Mode – LEDs 1 – 4 reflect the ENERGIZED state of RELAYS 1 – 4, LEDs 5 – 8 reflect the ENERGIZED state of TRANS 1 – 4.

Contact #x Analog Value Mode – LEDs 1 – 12 display the binary reading from the specified analog contact. LED 1 is bit 0, LED 12 is bit 11.

Ouput Test Mode – Shorting Contacts 1 – 4 will energize Relays 1 – 4. Shorting Contacts 5 - 8 will energize Transistors 1 – 4. LEDs 1 – 8 will reflect the contacts being shorted.

Reader 1 Output Program Mode – Select the output for Reader 1 by using the rotary address switch. Positions 0 – 3 map to outputs Relay 1 – 4 in fail secure mode. Positions 4 – 7 map to outputs Transistor 1 – 4 in fail secure mode. Positions 8 – B map to outputs Relay 1 – 4 in fail safe mode. Positions C – F map to outputs Transistor 1 – 4 in fail safe mode. Next short out one of the contacts for as long as you want to unlock the door. The selected contact becomes the REX switch.

Reader 2 Output Program Mode – Select the output for Reader 2 by using the rotary address switch. Positions 0 – 3 map to outputs Relay 1 – 4 in fail secure mode. Positions 4 – 7 map to outputs Transistor 1 – 4 in fail secure mode. Positions 8 – B map to outputs Relay 1 – 4 in fail safe mode. Positions C – F map to outputs Transistor 1 – 4 in fail safe mode. Next short out one of the contacts for as long as you want to unlock the door. The selected contact becomes the REX switch.

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Factory Reset Mode – Apply power with jumpers in this setting. Wait for LEDs 1 – 8 to start a crawl, indicating that the reset operation is over. Remove power and change the jumpers to a standard configuration. Apply power and the board will be in the factory reset mode.