

FOR TYPICAL REMOTE CONTROL  
DETAILS, SEE DOCUMENT  
**RWS100**

VOLTAGE OPTIONS	
VOLTAGE	SIZE
110VDC	10,12,18,20,25
48VDC	10,12,18
24VDC	10

REFER TO SHEET 2 FOR NOTES  
& OPTION PCB'S IF FITTED

Iss	Date	Chkd	Revision Details
1	210616	JC1	First Issue

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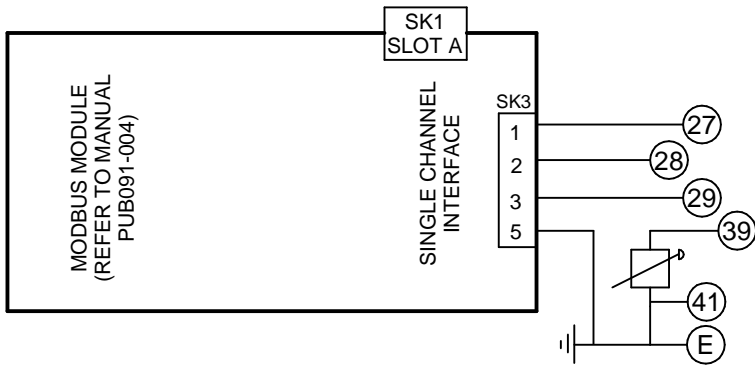
**IQ DC + MODBUS + RHS**

Drawn by: PJW  
Date : 210616  
Base WD: 140M2006  
Job No : --  
MI No : --

Circuit Diagram Number		Issue No	Sheet
<b>140M2006</b>		<b>1</b>	<b>1</b>
B1	C1	B2	C2

# SLOT A

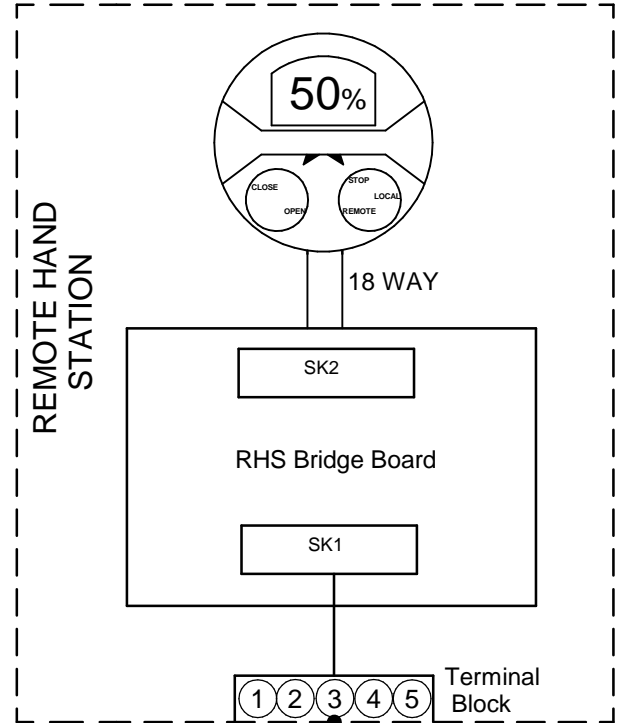
CIRCUIT DRAWN WITH POWER SUPPLY OFF



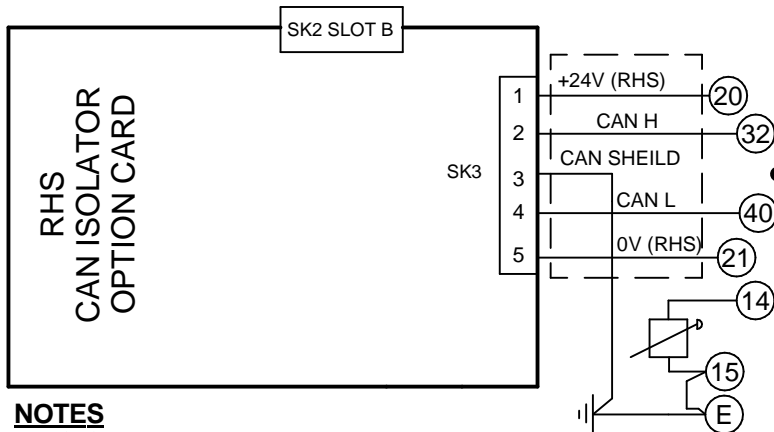
1A (Rx/Tx +)  
1B (Rx/Tx -)  
COMMON  
SCREEN

PASSIVE TERMINATION CONTROLLED VIA SETTING IN ACTUATOR CONFIGURATION. REFER TO PUB002-040

MODBUS RS485 SIGNAL LINES REQUIRE EXTERNAL ACTIVE BIASING TO BE PROVIDED AT ONE LOCATION FOR THE WHOLE BUS SEGMENT. REFER TO PUB091-004.



# SLOT B



## NOTES

### 1.FUSES:

- FS1 - 6A anti-surge
- Actuator rated voltage specified on nameplate. Voltage tolerance +/-10%, applies for rated torque performance; duty cycle and speed is not guaranteed.

### 2.REMOTE CONTROL:

- For typical remote control circuits refer to:
  - RWS indicated or PUB002-041.
- For DC and AC control, connect -ve/0V to terminal 36.
- (For negative switch / positive common, refer to RWS indicated).
- Control signal threshold voltages:
  - DC: "on"  $\geq 16V_{dc}$  / "off"  $\leq 8V_{dc}$ , max 60Vdc.
  - AC: "on"  $\geq 60V_{ac}$  / "off"  $\leq 40V_{ac}$ , max 120Vdc.
- Control signal duration to be 300ms minimum.
- Maximum current drawn from remote control signals is:
  - 8mA at 24Vdc or 12mA at 120Vdc.
- Supply provided on terminals 4 & 5:
  - Intended for remote control.
  - Max external load 5W at 24Vdc / 5VA at 120Vdc

### 5.DC:

- Default for sleep mode is ENABLE.
- To disable sleep mode connect 5 to 46 & 4 to 47.
- Sleep mode can also be disabled by moving link LK1 from SOLAR to NORM.
- Actuator will remain powered up at all times while supply is present.
- 24VDC will be lost when in sleep mode.
- If customer supply is needed to wake actuator link LK3 must be moved to CUST for maintained customer supply.

### 3.INDICATION:

- For typical position, status and alarm indication see PUB002-041.
- "S" contacts are user configurable and are shown in their default setting.
- Refer to PUB002-040 for functions and configuration instructions.
- Monitor Relay indicates actuator availability for remote control (shown "unavailable"). It can be configured to exclude local/remote selection.
- Refer to PUB002-040 for monitored functions and configuration instructions.
- Voltage applied to indication contacts must not exceed 150Vac
- Individual Switch current must not exceed 3.5A inductive, 5A resistive and no more than 8A in total for all 4 contacts.

### 4.BATTERY:

- Battery maintains local and remote "S" contact indication only.
- Refer to installation manual for approved replacement battery types.

Actuator Terminal Bung No.	RHS Terminal Block No.	Function
20	1	+24V (RHS)
21	2	0V (RHS)
32	3	CAN H
40	4	CAN L
14	5	SHEILD

See Sheet 1 for all Revision details/information

Circuit Diagram Number	Issue No	Sheet
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