



## Connecting a Simark SMRT-PRO unit to a SCADApack 300 Series Controller

- The below instruction will provide a 1000 pulse/m3 to the SCADApack on either Counter 1 or Counter 2 inputs

### General SMRT-Pro Configuration:

SETUP		ADVANCED	
Input Type		Output	
InPut	COIL	OUT1	Pulse
Factor			Total
FUnit	P/GAL	Decimal Point	3333.333
dEc.Pt	22222.22	Count	0.001
FActr	Turbine Meter K Factor	OUT2	Pulse
Units			Total
tbASE	DAY	Decimal Point	3333.333
rATEU	M3	Count	0.001
Tot U	M3		
Tot U Mult	x 1 (no multiplier)		
Gtot U	M3		
Gtot U Mult	x 1 (no multiplier)		
dEc.Pt			
rAtE	111111.1		
totAL	111111.1		
Grtot	111111.1		
dSPLY			
tOP	Rate		
bOtm	Toggle Total+U+Rate U		

## Jumper Configurations

### SCADAPack 330 with 12V Power Supply

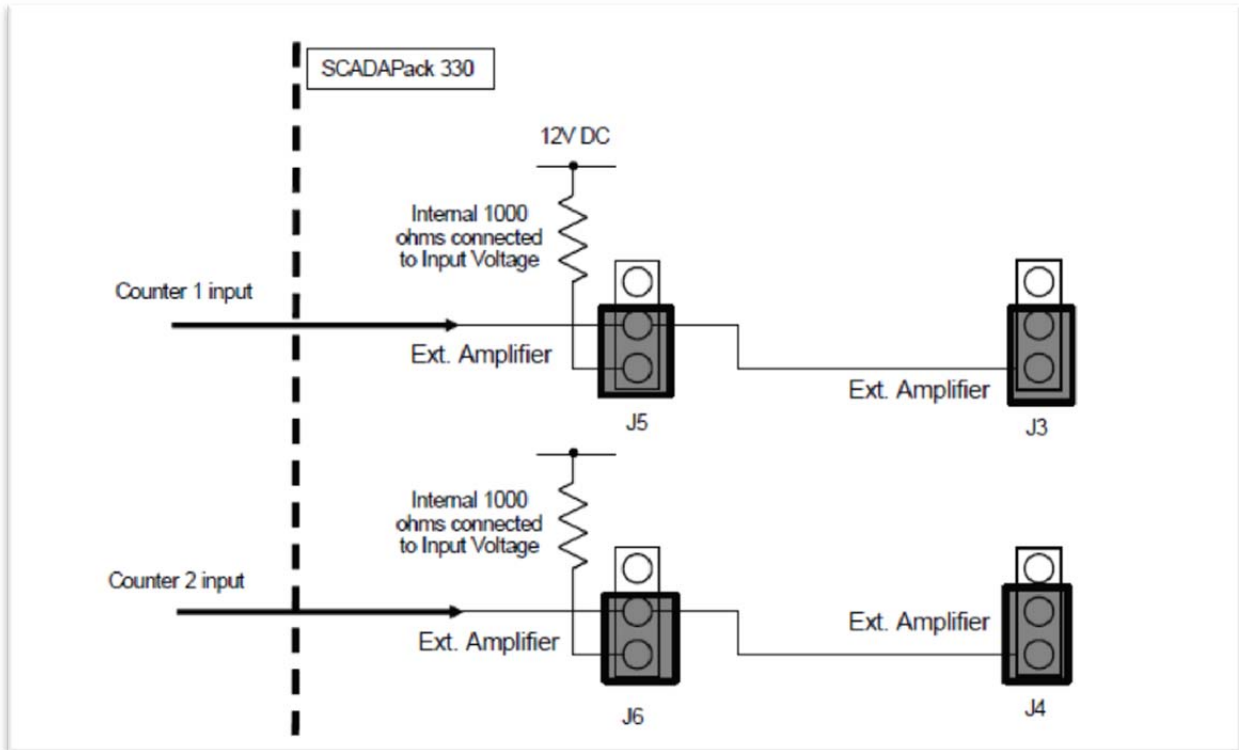


Figure1. SCADAPack 330 Circuit Diagram 12V

For Counter 1:

Install jumper J5 in the **Ext. Amplifier** position.  
Install jumper J3 in the **Ext. Amplifier** position.

For Counter 2

Install jumper J6 in the **Ext. Amplifier** position.  
Install jumper J4 in the **Ext. Amplifier** position.

## SCADApack 330 using 24V Power Supply

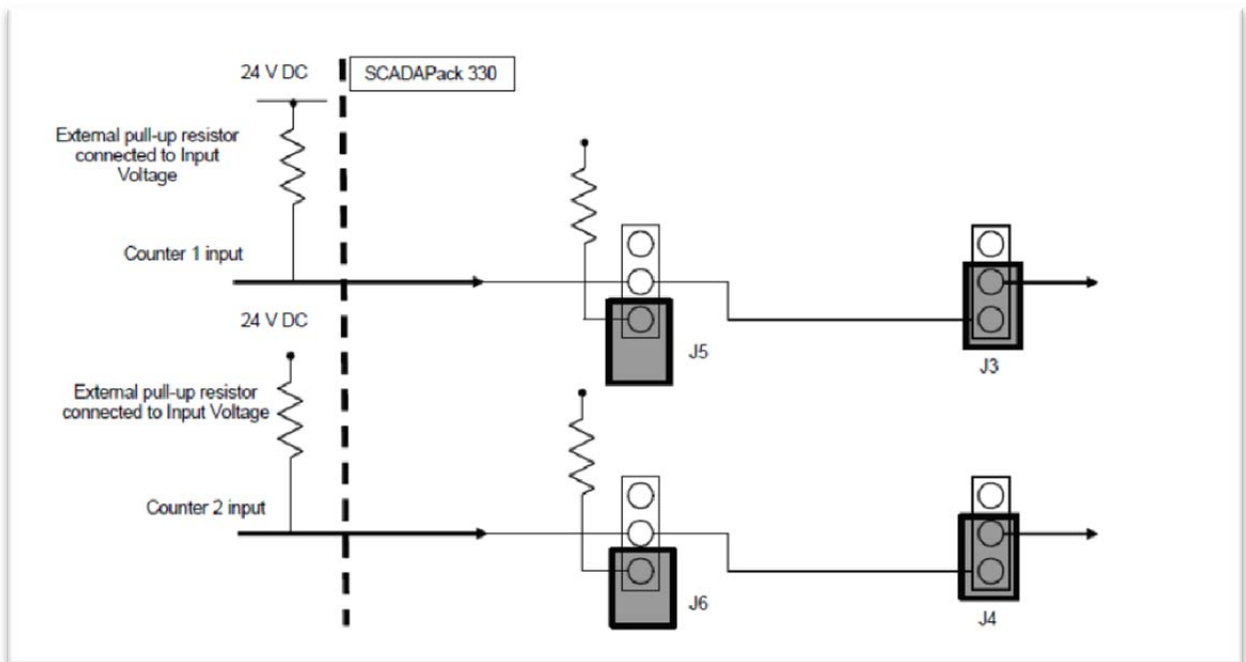


Figure 2. SCADApack 330 Circuit Diagram 24V

For Counter 1:

Remove jumper J5 from the „Ext Position“.

- This jumper is not used and can be stored, if required, on the single header pin as shown in **Figure 2**.

Install jumper J3 in the **Ext. Amplifier** position.

For Counter 2

Remove jumper J6 from the „Ext Position“.

- This jumper is not used and can be stored, if required, on the single header pin as shown in **Figure 2**.

Install jumper J4 in the **Ext. Amplifier** position.

### Calculating the size of the pull-up Resistor

An input current of between 5mA and 10mA is suggested for the counter input sinking current. Using a value of 7.5mA and 24VDC:  $24\text{VDC} / 7.5\text{mA} = 3\text{k}\Omega$  resistor.  $24\text{VDC} * 7.5\text{mA} = 180\text{mW}$  minimum **0.25W** resistor is needed.

### SCADAPack 350 using 12V Power Supply

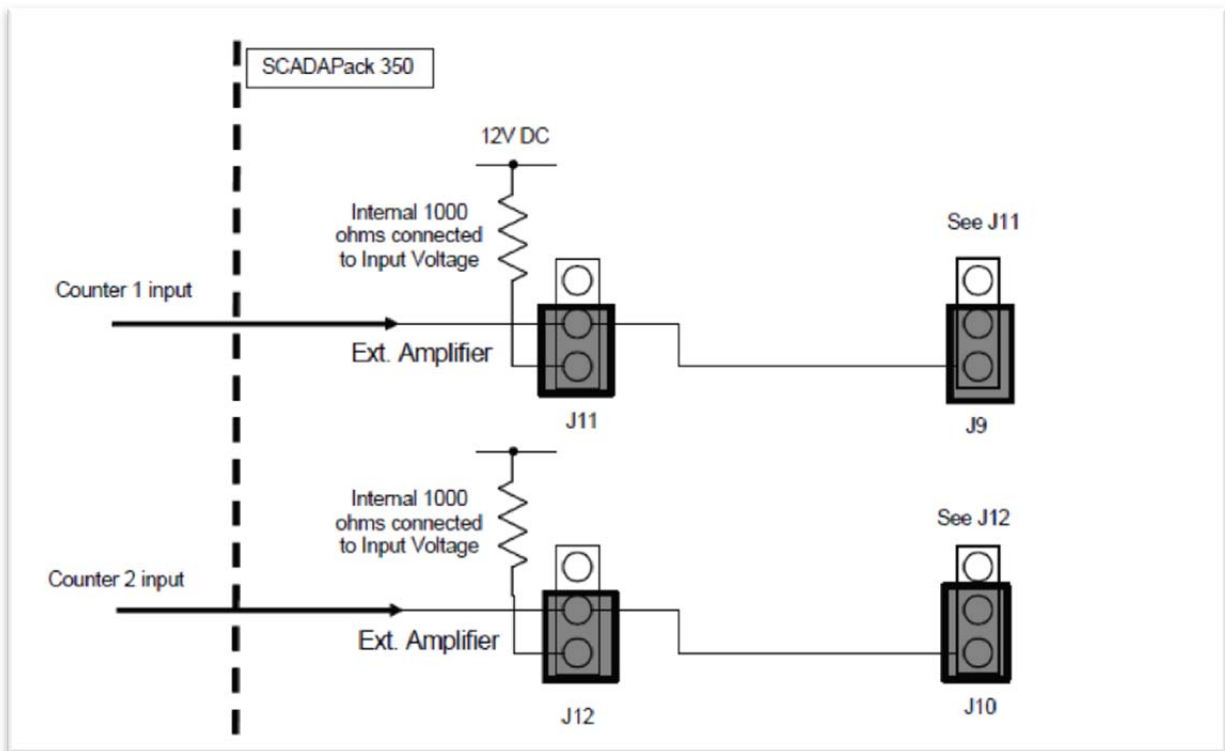


Figure 3. SCADAPack 350 Circuit Diagram 12V

For Counter 1:

Install jumper J11 in the **Ext. Amplifier** position.  
Install jumper J9 in the **Ext. Amplifier** position.

For Counter 2

Install jumper J12 in the **Ext. Amplifier** position.  
Install jumper J10 in the **Ext. Amplifier** position.

## SCADAPack 350 using 24V Power Supply

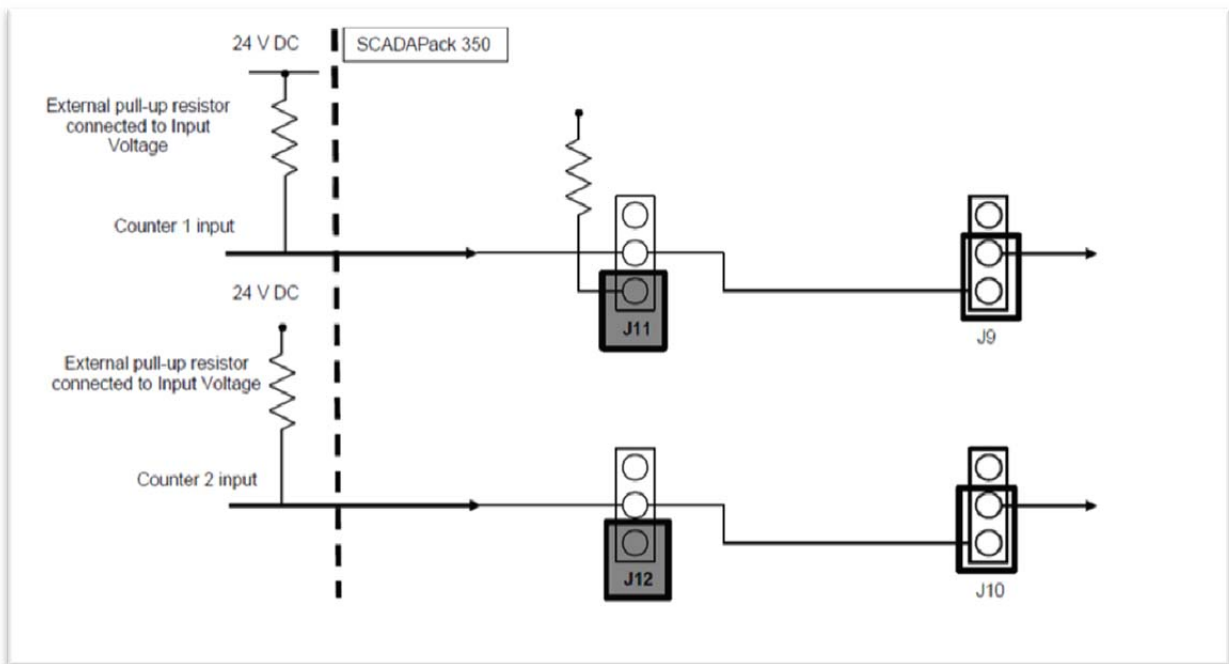


Figure 4. SCADAPack 350 Circuit Diagram 24V

For Counter 1:

Remove jumper J11 from the „Ext Position“.

- This jumper is not used and can be stored, if required, on the single header pin as shown in **Figure 4**.

Install jumper J9 in the **Ext. Amplifier** position.

For Counter 2

Remove jumper J12 from the „Ext Position“.

- This jumper is not used and can be stored, if required, on the single header pin as shown in **Figure 4**.

Install jumper J10 in the **Ext. Amplifier** position.

### Calculating the size of the pull-up Resistor

An input current of between 5mA and 10mA is suggested for the counter input sinking current. Using a value of 7.5mA and 24VDC:  $24\text{VDC} / 7.5\text{mA} = 3\text{k}$  resistor.  $24\text{VDC} * 7.5\text{mA} = 180\text{mW}$  minimum **0.25W** resistor is needed.