

PDM 32 Wipers

All names in this document have the type in capitals as the last characters in the name.

WiperAI is an analogue input.

WipParkDI is a digital input.

Int Wiper SV is a status variable.

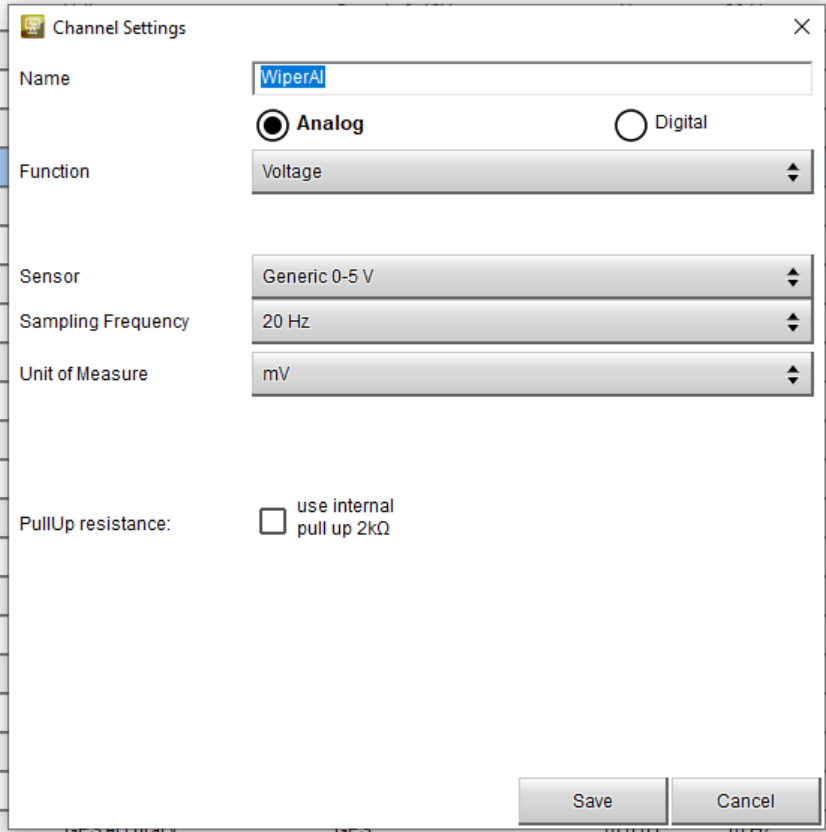
WiperSV is a status variable.

Wiper1 O is an output.

Wiper2 O is an output.

The WiperAI is an analogue voltage input.

It determines which output is on and whether the intermittent wiper is in use.

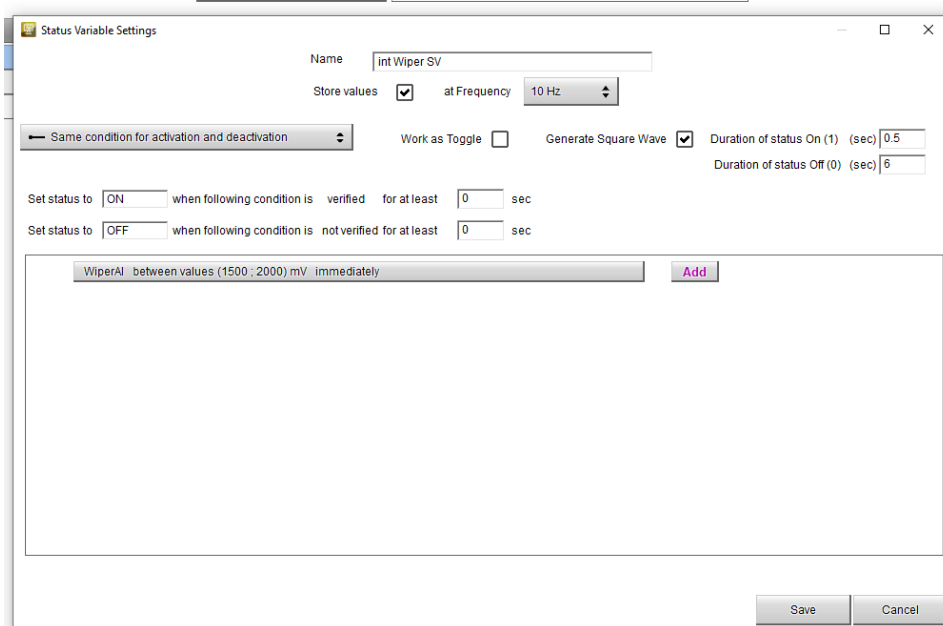


The screenshot shows a 'Channel Settings' dialog box with the following configuration:

- Name:** WiperAI
- Function:** Voltage
- Sensor:** Generic 0-5 V
- Sampling Frequency:** 20 Hz
- Unit of Measure:** mV
- PullUp resistance:** use internal pull up 2k Ω

At the bottom right, there are 'Save' and 'Cancel' buttons.

The intermittent wiper has its own status variable so that a square wave can be created with an on time of 0.5 second and an off time of 6 seconds, this can be changed or multiple intermittent wipers can be set up with different off times.



The wiper1 status variable was set as below



The wiper1 is off if wiper2 starts or if wipers are turned off and is in park position.

If it is not in park position it will stay on until it is in park position.

Wiper1 O and wiper2 O should not be on at the same time as things will get very hot

Here is Wiper1 O

Modify Output Signal

Mid Power Out 3 on Black Connector (35 Pin Male) Pin: 4:

Name: Wipers1 O

Settings | Related Channels

Soft Start in a time of 1 sec

Soft Stop in a time of 1 sec

PWM based on frequency of 100 Hz

Maximum Value of Requested Load (up to 15.0 A) 15 A

Over Current Latch-Off Time 0.5 sec

Number of Retries 1

Retry Delay 0.5 sec

Minimum Current 0 A

Check Open Load in Off State

Distinct conditions for activation and deactivation

Activation: set status to ON when following condition is verified for at least 0 sec

Wiper SV equal to ON immediately [X] Add

OR

int Wiper SV equal to ON immediately [X] Add

Add

Deactivation: set status to OFF when following condition is verified for at least 0 sec

Wiper SV equal to OFF immediately [X] Add

AND

int Wiper SV equal to OFF immediately [X] Add

AND

WipParkDI equal to ON immediately [X] Add

OR

Wipers 2 equal to ON immediately [X] Add

Add

OK Cancel

Here is wiper2 O

Modify Output Signal

Mid Power Out 2 on Black Connector (35 Pin Male) Pin: 3:

Name: Wipers 2 O

Settings | Related Channels

Soft Start in a time of 1 sec

Soft Stop in a time of 1 sec

PWM based on frequency of 100 Hz

Maximum Value of Requested Load (up to 15.0 A) 15 A

Over Current Latch-Off Time 0.5 sec

Number of Retries 1

Retry Delay 0.5 sec

Minimum Current 0 A

Check Open Load in Off State

Distinct conditions for activation and deactivation

Activation: set status to ON when following condition is verified for at least 0 sec

WiperAI greater than 4000 mV immediately [X] Add

Deactivation: set status to OFF when following condition is verified for at least 0 sec

WiperAI less than 4000 mV immediately [X] Add

OR

Wipers1 equal to ON immediately [X] Add

Add

OK Cancel