pin_configure

WMPRO FW >= 1.0 WMMEGA FW >= 2.0

Configure an IO pin as a digital input, output, or analog input

Description

pin_configure (int $pin_index, int $pin_type [, int $counter_type])

This function will change settings for certain pins on the WattmonPRO and MEGA. This is actually not to be used unless you know what you are doing, because it may cause certain parts of the device to not function properly.

Parameters

$pin_index: The internal pin number. There are 16 configurable pins:

Pin Index	External Label (Physical)	Default	Settable as	Description
0	VIN/A1 (PIN 2)	ANALOG	ANALOG/INPUT/OUTPUT	Voltage of primary input
1	A2 (PIN 3)	ANALOG	ANALOG/INPUT/OUTPUT	Voltage of A2 input
2	A3 (PIN 4)	ANALOG	ANALOG/INPUT/OUTPUT	Voltage of A3 input
3	Internally available	ANALOG	ANALOG/INPUT/OUTPUT	No physical connection
6	DI1 (PIN 16)	INPUT	INPUT/COUNTER	Digital input (opto-isolated) or counter
7	DI2 (PIN 17)	INPUT	INPUT/COUNTER	Digital input (opto-isolated) or counter
8	DI3 (PIN 18)	INPUT	INPUT/COUNTER	Digital input (opto-isolated) or counter
9	DI4 (PIN 19)	INPUT	INPUT/COUNTER	Digital input (opto-isolated) or counter
10	DO1 (PIN 21)	OUTPUT	INPUT/OUTPUT	Digital output
11	DO2 (PIN 22)	OUTPUT	INPUT/OUTPUT	Digital output
12	DO3 (PIN 23)	OUTPUT	INPUT/OUTPUT	Digital output
13	DO4 (PIN 24)	OUTPUT	INPUT/OUTPUT	Digital output
14	RL1 (PIN 13)	OUTPUT	INPUT/OUTPUT	Latches the relay on (should never be kept on for long, just pulse to switch)
15	RL2 (PIN 14)	OUTPUT	INPUT/OUTPUT	Latches the relay off (should never be kept on for long, just pulse to switch)

$pin_type: Any of the following (if settable for that pin), allowed values:

Pin Type	Description
1	OUTPUT (digital)
2	INPUT (digital)
4	ANALOG input
16	COUNTER (digital input)

$counter_type: Optional if configuring a COUNTER (pin index 6-9), choose from the following:

Counter Type	Description
0	Trigger on High
1	Trigger on Low
2	Trigger on any change

Return Values

None

See Also

pin_get() - Return the value of a digital input pin

pin_set() - Set a digital output to value (1 or 0)

adc_read() - Read an onboard ADC channel