

1 INSTALLATION

MonTICK is supplied with a wiring harness, Outputs connected on the top connector as indicated below, and Inputs connected on the bottom connector.

For the APM303 SDMO controller, we supply quick splice connectors (Figure 2) so that the MonTICK harness can be connected to the APM303 harness without unscrewing connector blocks. There are also too many wires in the APM303 connector block for the parallel connections to fit.



Figure 1 - MonTICK

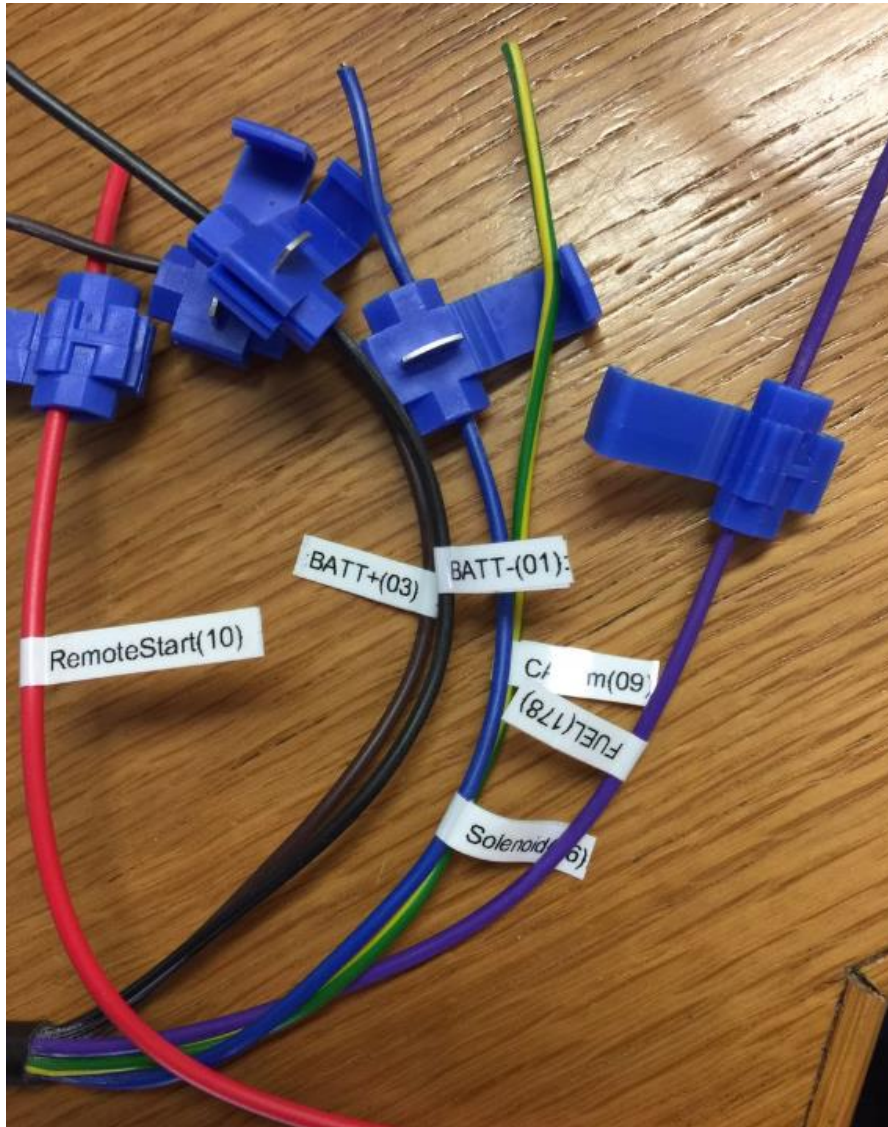


Figure 2 - Quick splice connectors INPUTS



Figure 3 - Output1 Relay for remote start

1.1 APM303 diagram

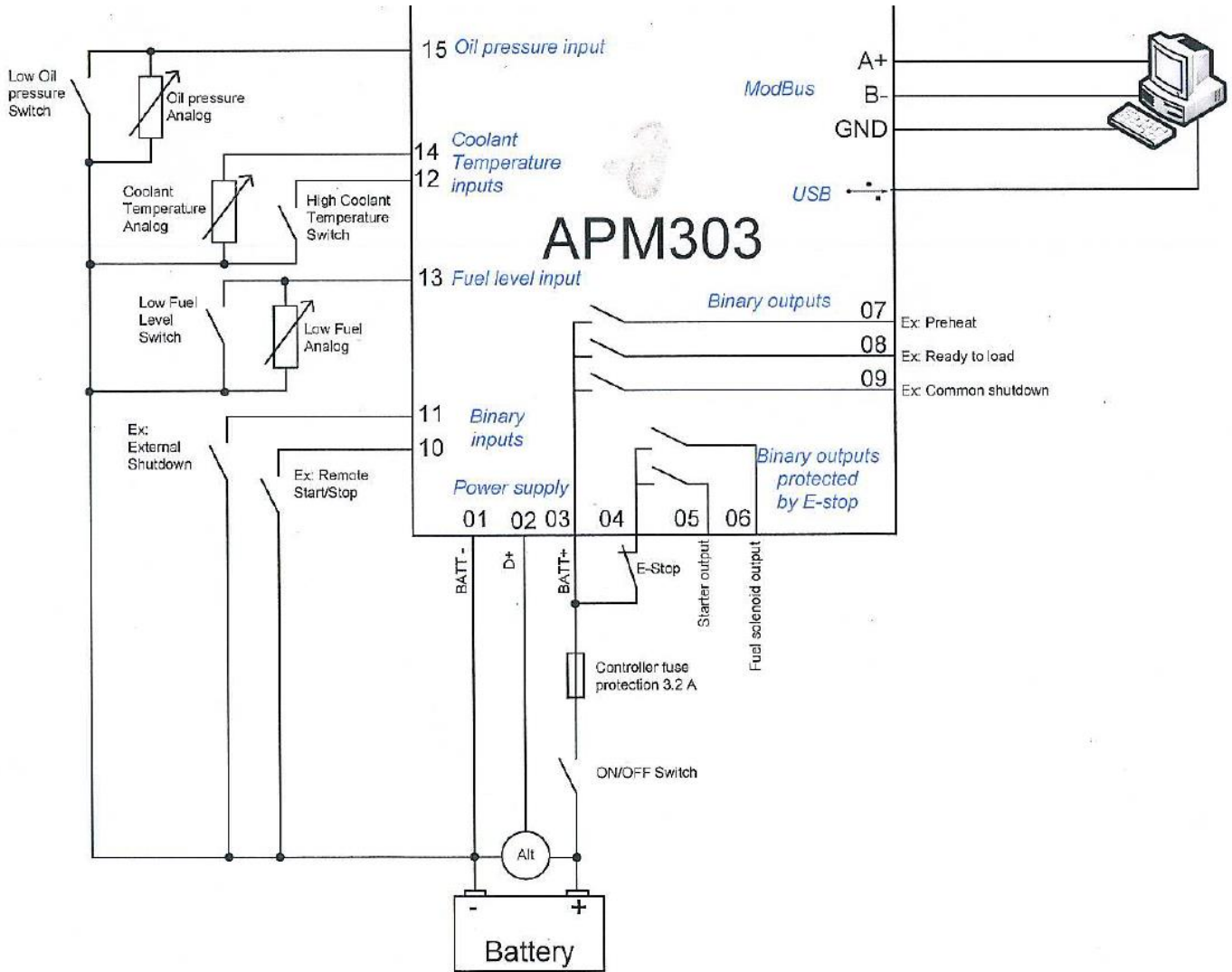


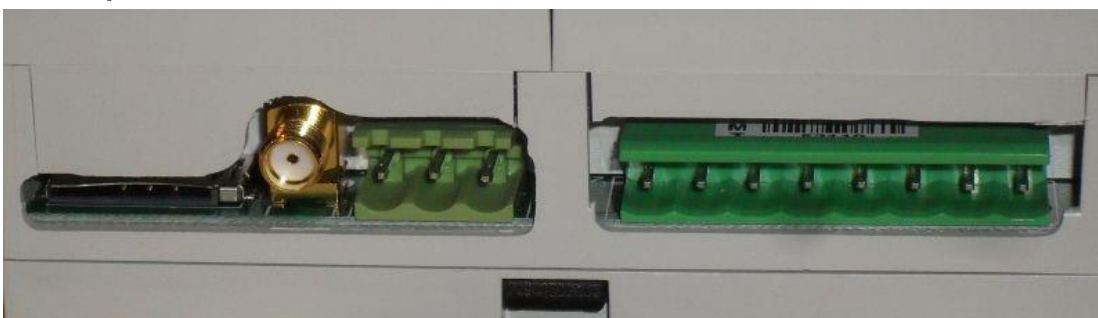
Figure 4 - APM303 Diagram

1.2 Connection table

MonTICK Connector	MonTICK Pin number	APM303 Pin Number	Function
Input	8	3	Battery + 12/24V
Input	7	1	Battery – 0V
Input	6	Not used	Not used
Input	5	10	Mains sense – on remote start pin
Input	4	Not used	Not used
Input	3	6	Fuel Solenoid – RUN/STOP
Input	2	9	Common Alarm
Input	1	Not used	Not used
Output	8	Not used	Not used
Output	7	Not used	Not used
Output	6		Relay drive for output 1, relay dry contact connects to 10 on APM303
Output	5	Not used	Not used
Output	4	Not used	Not used
Output	3	Not used	Not used
Output	2	Not used	Not used
Output	1	13	Fuel Level – Analog

2 CONNECTORS

2.1 Input Antenna and Simcard



Simcard Antenna Serial Port

Inputs & Power

2.2 Inputs & Power

When the input goes “high” – to 12/24VDC the signal is active. If your generator controller outputs a low for the signal the signal should be reversed with a 12/24V relay.



(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Not Used	Common Alarm	Input 1 Run/Stop	Input 2 E Stop	Input 3 Mains	Input 4	GND	VBAT 12/24VDC

2.3 Outputs2



Pin1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Fuel gauge Connect ion to harness. (13)	Fuel Probe 4.2V regulated.	GND	Spare	Output 2	Output 1		

If MontTICK is used with a generator controller's fuel gauge, then you can simply connect the Fuel Gauge terminal (Pin 1) to the input of the generator controller fuel input pin (13)

When you use your own fuel gauge, a 2k2 resistor needs to be connected from the Fuel gauge input (Pin1) to the Regulated 4.2V (Pin 2). Your fuel gauge is connected to Pin 1 and Pin 3