Bill of Materials: vegimeter2.fzz

/home/slade/git/vegimeter2/device/vegimeter2.fzz

Friday, September 13 2013, 01:23:09

Assembly List

Label	Part Type	Properties
0.1 uF	Capacitor	package cap-pth-small2; variant pth2
5 MHz XTAL	CRYSTAL	package hc49us; variant hc49us
Air Temp	TEMPERATURE-SENSOR	package to-92; part # DS18B20
C2 (10 nF)	Capacitor	package cap-pth-small2; variant pth2
C3 (4.7uF)	Capacitor	package cap-pth-small2; variant pth2
EEPROM	24LC256	package THT; interface I2C; variant 24LC256
FT232RL	USB UART	package ssop28db; chip FT232RL; variant ssop
Heater	Power plug	
Heater Relay	RELAY	package relay-jzc; variant pth4
LR 3.3V	Voltage Regulator - 3.3V	package TO220 [THT]; voltage 3.3V; part # LM7833
LR 5.0V	SPX29302	package q5-dd_spx29300; features LDO; current 3A; part # SPX29300T-L-5-0
Mini USB	USB Connectors	package usb-b-pth; target USB-B; variant pth
NPN	NPN-Transistor	package TO92 [THT]; type NPN (EBC)
Primary	Power plug	
Propeller1	Parallax Propeller D40	package DIP [THT]; type Parallax Propeller
Pump	Power plug	

Pump Relay	RELAY	package relay-jzc; variant pth4
R1	10k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 10kΩ; pin spacing 400 mil
R2	10k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 10kΩ; pin spacing 400 mil
R3	10k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 10kΩ; pin spacing 400 mil
R4	4.7k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 4.7kΩ; pin spacing 400 mil
R5	4.7k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 4.7kΩ; pin spacing 400 mil
R6	4.7k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 4.7kΩ; pin spacing 400 mil
R7	4.7k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 4.7kΩ; pin spacing 400 mil
R8	4.7k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 4.7kΩ; pin spacing 400 mil
R9	4.7k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 4.7kΩ; pin spacing 400 mil
R11	1k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 1kΩ; pin spacing 400 mil
R12	220 Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 220Ω; pin spacing 400 mil
R13	220 Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 220Ω; pin spacing 400 mil
R14	100 Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 100Ω; pin spacing 400 mil
R15	10k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 10kΩ; pin spacing 400 mil
R16	4.7k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 4.7kΩ; pin spacing 400 mil
Reset	SWITCH-MOMENTARY-2	package tactile_switch_tall
Soil A Temp	Header 3	package screwterminal-3.5mm-3_lock.007s; variant screw_lock
Soil B Temp	Header 3	package screwterminal-3.5mm-3_lock.007s; variant screw_lock

Soil C Temp	Header 3	package screwterminal-3.5mm-3_lock.007s; variant screw_lock
Soil D Temp	Header 3	package screwterminal-3.5mm-3_lock.007s; variant screw_lock
ULN2803A	ULN2803A	package THT; variant ULN2803A
USB RX	LEDs	package led10mm; variant 10mm
USB TX	LEDs	package led10mm; variant 10mm
Water A Temp	Header 3	package screwterminal-3.5mm-3_lock.007s; variant screw_lock
Water B Temp	Header 3	package screwterminal-3.5mm-3_lock.007s; variant screw_lock
XBEE	XBee	model XBee ZNet 2.5; pins 20
XBEE In	LEDs	package led10mm; variant 10mm
XBEE Out	LEDs	package led10mm; variant 10mm

Shopping List

Amount	Part Type	Properties
3	Capacitor	package cap-pth-small2; variant pth2
1	CRYSTAL	package hc49us; variant hc49us
1	TEMPERATURE-SENSOR	package to-92; part # DS18B20
1	24LC256	package THT; interface I2C; variant 24LC256
1	USB UART	package ssop28db; chip FT232RL; variant ssop
3	Power plug	
2	RELAY	package relay-jzc; variant pth4
1	Voltage Regulator - 3.3V	package TO220 [THT]; voltage 3.3V; part # LM7833
1	SPX29302	package q5-dd_spx29300; features LDO; current 3A; part # SPX29300T-L-5-0

1	USB Connectors	package usb-b-pth; target USB-B; variant pth
1	NPN-Transistor	package TO92 [THT]; type NPN (EBC)
1	Parallax Propeller D40	package DIP [THT]; type Parallax Propeller
4	10k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 10kΩ; pin spacing 400 mil
7	4.7k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 4.7kΩ; pin spacing 400 mil
1	1k Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 1kΩ; pin spacing 400 mil
2	220 Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 220Ω; pin spacing 400 mil
1	100 Ω Resistor	package THT; tolerance ±5%; bands 4; resistance 100Ω; pin spacing 400 mil
1	SWITCH-MOMENTARY-2	package tactile_switch_tall
6	Header 3	package screwterminal-3.5mm-3_lock.007s; variant screw_lock
1	ULN2803A	package THT; variant ULN2803A
4	LEDs	package led10mm; variant 10mm
1	XBee	model XBee ZNet 2.5; pins 20

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