

REQUIRED PARTS FOR PCB ASSEMBLY								
Item #	Qty	Vendor	Vendor Part #	Description	Link	Unit Price	Extended price	Notes
1	1	Dirty PCBs	N/A	PC Board	http://dirtypcbs.com/store/designer/details/I/Schrempp/5148/water-leak-detector-pcb-	\$12.00	\$12.00	Only \$2 each in quantities of 10 or more.
2	1	Adafruit	2721	Particle Photon WiFi Microcontroller with breadboard headers	https://www.adafruit.com/products/2721	\$19.00	\$19.00	The Particle Electron may also be used.
3	1	Adafruit	1787	74HCT125 level converter, 3 volt to 5 volt	https://www.adafruit.com/products/1787	\$1.50	\$1.50	
4	1	Adafruit	1536	Piezo Buzzer	https://www.adafruit.com/products/1536	\$0.95	\$0.95	
5	1	Adafruit	169	Micro Servo	https://www.adafruit.com/products/169	\$5.95	\$5.95	
6	1	Adafruit	386	DHT11 temperature/humidity sensor with pullup resistor	https://www.adafruit.com/products/386	\$5.00	\$5.00	
7	1	Adafruit	1440	Momentary pushbutton switch with green LED	https://www.adafruit.com/products/1440	\$1.50	\$1.50	
8	1	Adafruit	3221	SPDT toggle switch	https://www.adafruit.com/products/3221	\$0.95	\$0.95	
9	1	Adafruit	501	USB power supply, 5 volt/1 Amp	https://www.adafruit.com/products/501	\$5.95	\$5.95	
10	1	Adafruit	266	strip of 40 female-female 6" jumper wires	https://www.adafruit.com/products/266	\$3.95	\$3.95	
11	10	Jameco	691024	Resistor, 4.7 k ohm, 1/4 watt axial)	http://www.jameco.com/z/CF1-4W472JRC-Resistor-Carbon-Film-4-7k-Ohm-1-4-Watt-5-691024.html	\$0.10	\$0.99	Must order 10 pcs (need 5)
12	1	Jameco	222608	USB cable	http://www.jameco.com/z/10U2-02203-BK-Cable-USB2-0-A-B-3-Feet-Black-USB-A-Male-To-USB-B-Male_222608.html	\$1.75	\$1.75	
13	2	Amazon.com	sensor	Solu water level sensor	https://www.amazon.com/gp/product/B00UJ0DVN4/ref=oh_aui_detailpage_o00_s00?ie=UTF8&psc=1	\$3.62	\$7.24	Order 1 or 2 sensors, as needed for your project.
14	2	Sparkfun.com	14021	RJ11 dual breakout	https://www.sparkfun.com/products/14021	\$1.95	\$3.90	
15	4	Sparkfun.com	132	RJ11 6 pin PCB connector	https://www.sparkfun.com/products/132	\$1.25	\$5.00	
16	10	Jameco	690785	Resistor, 470 ohm, 1/4 watt axial)	http://www.jameco.com/z/CF1-4W471JRC-Resistor-Carbon-Film-470-Ohm-1-4-Watt-5-690785.html	\$0.10	\$0.99	Must order 10 pcs (need 1)
17	10	Jameco	93761	Capacitor, 100 uf, 25 v	http://www.jameco.com/z/R100-25-100-uF-25-5-Volt-Radial-Capacitor_93761.html	\$0.09	\$0.90	Must order 10 parts (need 1)

18	10 Jameco	151116	Capacitor, 0.1 uf, ceramic	http://www.jameco.com/z/DC-1-25-Capacitor-Ceramic-Disc-0-1-micro-F-25V-plusmn-20-37-151116.html	\$0.15	\$1.50 Must order 10 parts (need 7)
19	1 Jameco	230958	USB female type B connector	http://www.jameco.com/z/USB-B-S-RA-CS1-SPCC-WT-Adam-Technologies-Connector-USB-2-0-USB-B-Pcb-Female-Right-	\$0.99	\$0.99 http://www.jameco.com/webapp/wcs/stores/servlet/Product_10001_10001_230958_-1
20	1 Sparkfun.com	10158	Breakaway male pin headers (strip of 40)	https://www.sparkfun.com/products/10158	\$2.95	\$2.95
21	1 Jameco	317197	14 pin DIP socket	http://www.jameco.com/z/6100-14-R-Socket-IC-14-Pin-Machine-Tooled-Low-Profile-0-3-Inch-Wide-37197.html	\$0.50	\$0.50
22	1 Jameco	164822	4 pin SIPP socket	http://www.jameco.com/z/6100-1-4-Socket-SIPP-1x4-Pin-Machine-Tool-Pins-Soldertail-Female-164822.html	\$0.59	\$0.59 Best to mount the DHT11 in a socket. This mounts the part vertically - can bend the DHT11 horizontal after installation.
23	2 Digi-Key	S7016-ND	18 pin female header	https://www.digikey.com/products/en?keywords=S7016-ND	\$1.37	\$2.74
24	2 Jameco	196227	7 ft 4 wire telephone cable	http://www.jameco.com/z/8101-64207-Modular-Network-Cable-RJ11-6P4C-7-Footer-Long-Reverse-Grey-196227.html	\$1.75	\$3.50 NOTE: the assembly instructions are for "reverse" or "telephone wired" cables. This part number is an example of a 7 foot cable. You can buy telephone cables in many sizes and colors in hardware stores and online. Be sure to get 4 wire (not 2 wire) cables!

TOTAL:

\$78.29

ENCLOSURE AND MOUNTING HARDWARE
(CUT BOX)

1	1 Office max	452378	Box	http://www.officedepot.com/a/products/452378/Really-Useful-Box-Plastic-Storage-Box/	\$2.79	\$2.79 Use this part for the plastic box that you can cut to make the enclosure per the instructions.
2	8 Digi-Key	36-1902E-ND	Threaded standoff, F-F, 4-40 x 1", Nylon	https://www.digikey.com/products/en?keywords=36-1902E-ND	\$0.90	\$7.20
3	8 Digi-Key	36-9529-ND	Nylon screw, 4-40 x 1/2"	https://www.digikey.com/product-detail/en/keystone-electronics/9529/36-9529-ND	\$0.14	\$1.12
4	12 Digi-Key	36-9427-ND	Nylon screw, 4-40 x 1/4"	https://www.digikey.com/products/en?keywords=36-9427-ND	\$0.14	\$1.68
5	4 Digi-Key	36-9605-ND	Nylon nut, 4-40	https://www.digikey.com/product-detail/en/keystone-electronics/9605/36-9605-ND	\$0.17	\$0.68
6	1 Home Depot	11364	#8 wood screw and wall anchors	http://www.homedepot.com/p/E-Z-Ancor-Twist-N-Lock-75-lb-8-x-1-1-4-in-Phillips-Zinc-Plated-Nylon-Flat-Head-Drywall-Anchors-with-Screws-4-Pack-11364/100165900	\$1.49	\$1.49 4 pack (need 2)
7	1 N/A	N/A	Front panel, laser cut from 3 mm plastic or wood	N/A	N/A	N/A This is a custom made part from a 2D CAD file. You need access to a laser cutter to fabricate it.

8	1 N/A	N/A	Mounting bracket, laser cut from 3 mm plastic or wood	N/A	N/A	N/A	This is a custom made part from a 2D CAD file. You need access to a laser cutter to fabricate it.
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ENCLOSURE AND MOUNTING HARDWARE
(3D PRINTED)

1	1 Shapeways		Mounting assembly	https://www.shapeways.com/product/HBSDDYLAU/water-leak-detector-chassis	\$24.00	\$24.00	Use this in lieu if the plastic box for a 3D printed ready to assemble mounting enclosure.
2	1 Shapeways		3D printed front panel	https://www.shapeways.com/product/USTN8GVJQ/wld-bezel	\$15.00	\$15.00	Use this with the Shapeways 3D printed Mounting assembly
3	8 Digi-Key	36-9427-ND	Nylon screw, 4-40 x 1/4"	https://www.digikey.com/products/en?keywords=36-9427-ND	\$0.14	\$1.12	
4	8 Digi-Key	36-9605-ND	Nylon nut, 4-40	https://www.digikey.com/product-detail/en/keystone-electronics/9605/36-9605-ND/2746252	\$0.17	\$1.36	
5	4		Self tapping screw	[need link from Jim]			
6	1 Home Depot	11364	#8 wood screw and wall anchors	http://www.homedepot.com/p/E-Z-Ancor-Twist-N-Lock-75-lb-8-x-1-1-4-in-Phillips-Zinc-Plated-Nylon-Flat-Head-Drywall-Anchors-with-Screws-4-Pack-11364/100165900	\$1.49	\$1.49	

ENCLOSURE AND MOUNTING HARDWARE
(LASER CUT)

1	1 Tap Plastics		8x11 3mm material		\$10.00	\$10.00	acrylic or wood. For this case you have to cut it yourself from the WLD plans.
2	4 Jameco	77650	Threaded standoff, M-F, 6-32 x 1", Metal	https://www.jameco.com/webapp/wcs/stores/servlet/ProductDisplay?langId=-1&storeId=10001&catalogId=10001&productId=77650	\$0.59	\$2.36	
3	4 Jameco	77578	Threaded standoff, F-F, 6-32 x 1", Metal	https://www.jameco.com/webapp/wcs/stores/servlet/ProductDisplay?langId=-1&storeId=10001&catalogId=10001&productId=77578	\$0.90	\$3.60	
4	8 Jameco	2094418	#6-32 x 1/4" Phillips Pan Head Machine Screw	https://www.jameco.com/webapp/wcs/stores/servlet/ProductDisplay?langId=-1&storeId=10001&catalogId=10001&productId=2094418	\$0.09	\$0.72	
5	4 Jameco	2094434	#6-32 x 1/2" Phillips Pan Head Machine Screw	https://www.jameco.com/z/1128804--6-32-x-1-2-Phillips-Pan-Head-Machine-Screw_2094434.html	\$0.09	\$0.36	
6	8 Jameco	42420	#6-32 Nut Hex	https://www.jameco.com/webapp/wcs/stores/servlet/ProductDisplay?langId=-1&storeId=10001&catalogId=10001&productId=42420	0.065	\$0.52	

7	4 Digi-Key	36-9529-ND	Nylon screw, 4-40 x 1/2"	https://www.digikey.com/product-detail/en/keystone-electronics/9529/36-9529-ND	\$0.14	\$0.56
8	8 Digi-Key	36-9605-ND	Nylon nut, 4-40	https://www.digikey.com/product-detail/en/keystone-electronics/9605/36-9605-ND	\$0.17	\$1.36
9	1 Home Depot	11364	#8 wood screw and wall anchors	http://www.homedepot.com/p/E-Z-Ancor-Twist-N-Lock-75-lb-8-x-1-1-4-in-Philips-Zinc-Plated-Nylon-Flat-Head-Drywall-Anchors-with-Screws-4-Pack-11364/100165900	\$1.49	\$1.49