

## Moisture Meter v3.0 Parts List

ID	Description	DigiKey Part#	Mouser Part#
X1	5-pin Screw Term Block 3.5mm	ED1517-ND	651-1725685
U1	DS2760	Available from Dallas	
IC1	555 Timer SMD	LMC555CM-ND	511-TS555ID
REG1	L78L05		511-L78L05ABU
D1	BAT54S	BAT54SWT1OSCT-ND	625-BAT54S
C1,C2	4.7 uF Electrolytic	PCE3011CT-ND	661-MKA35VC4R7M
C3,C4	0.1 uF Ceramic	311-1141-1-ND	80-C0805C104K3R
C5,C6	4.7 uF Ceramic	PCC2321CT-ND	81-GRM21BR61E475KA12
R1	1K 1/4W 1%	311-1.00KFCT-ND	71-CRCW1206-1.0K
R2	28.7 1/4W 1%	311-28.7FCT-ND	71-CRCW1206-28.7
R3	100K 1/4W 1%	311-100kFCT-ND	71-CRCW1206-100K
R4	430 1/4W 1%	311-430FCT-ND	71-CRCW1206-430

Mouser is usually cheaper than DigiKey but the terminal blocks are cheaper at DigiKey.

### ***Construction Tips***

- Place all surface mount components first.
- Observe the polarity of C1 and C2
- R1 is marked 1001
- R2 is marked 28R7
- R3 is marked 1003
- R4 is marked 4300
- C3 & C4 are the smaller brown capacitors with no markings
- C5 & C6 are the larger brown capacitors with no markings
- This unit should be coated with a water resistant coating (like liquid electrical tape) because of its outdoor location.
- When used with the Gypsum Soil Sensor a suitable enclosure should be used. It is possible that the unit could be buried if using a waterproof enclosure. This would be useful when monitoring soil moisture in a yard where the grass would need to be cut.