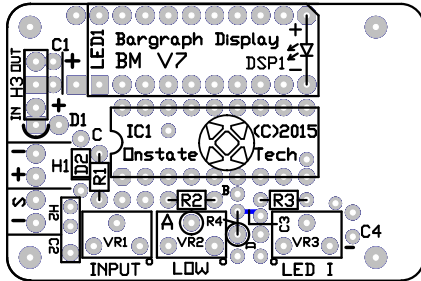
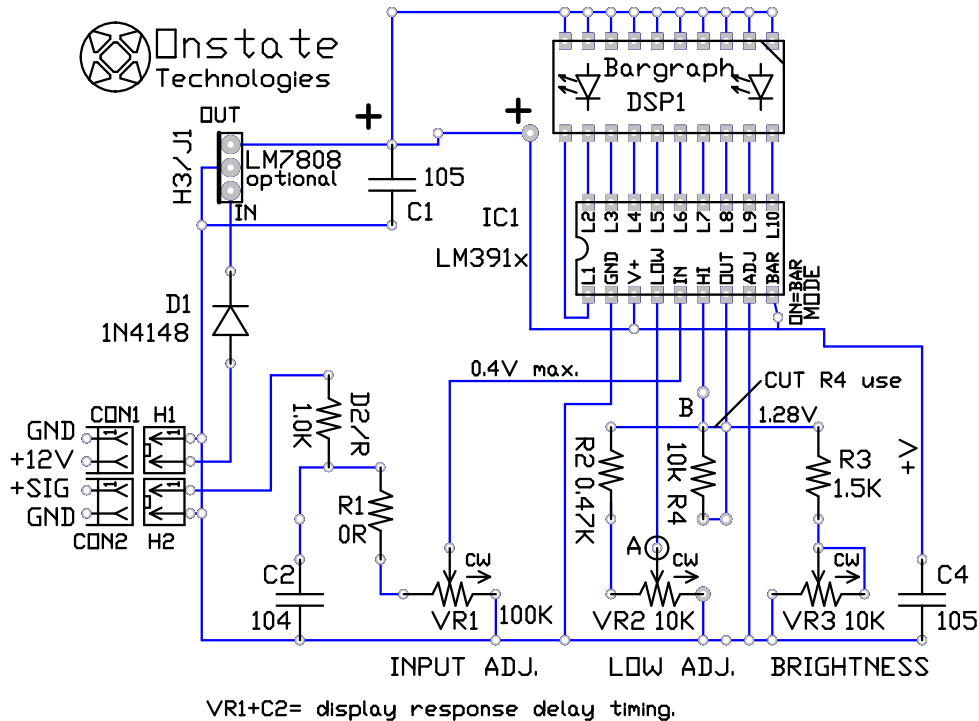


# Low Signal DC Bargraph Display Volt Meter



## Parts Labels



Part: BM-V7 (C)2017

Low DC input signal bargraph voltmeter.  
0.4-2.0V full scale input.

All \*-ND are Digi-Key part codes (Digi-key.com)

All resistors: 1/8W, 5%

(value)EBK-ND, eg. 47KEBK-ND (47K)

Trimmer resistors (VR), Cermet, PC pins

3362P-<VALUE>LF-ND, top adj. 103=10k, 104=100k

D1: 1N4148, general Si diode, 0.2A

J1/H3: Jumper, >16VIN use LM7808, 8V reg, 1A

Caps C: mono cer. 104=0.1uF, 103=0.01uF, 105=1.0uF

C1: power filter, any type >1.0uF on +/-

IC1: LM3914, linear 10 seg. bargraph driver

R4 sets HI reference voltage

IC Vref out=1.28V

For <1.25V full scale, cut bottom trace

near R4 (pin 6/7, B). Keep R4<47k.

R4: 10k VR2 CW HI (B)=0.4V full scale.

R4: 10k VR2 CCW HI (B)=0.67V full scale.

IC1 op-amp internal resistor divider

affects VR2 range control.

DISP1: 160-1067-ND, 10 seg. LED bargraph, GRN

Display Dot/Bar mode:

1. Cut trace on bottom side near MODE label to pin9