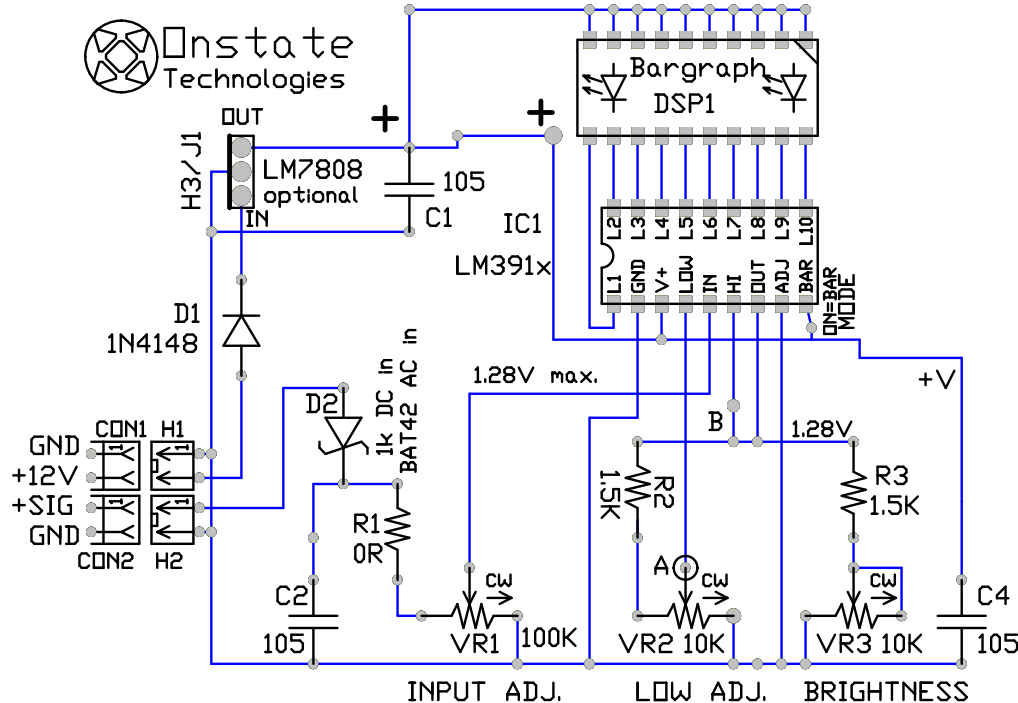


DC Bargraph Display Volt Meter

Parts Labels



R1: DC input voltage divider for high voltage input
Minimum V_{in} for full scale is 1.3V.

Part: BM-V7 (C)2015

Basic AC or DC input bargraph voltmeter.
1.3V-20V 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: LM3914xN-1-ND, 10 seg. bargraph driver

LM3914 is linear display.

LM3915 is audio VU display.

D2 (BAT42) is for slow decay display.

D2 (1k resistor) for steady DC input display.

D2 (BAT42) also for AC ->DC rectifier.

C2+R1/VR1 = display delay response.

R1: Input voltage divider for finer VR1 adjustment.

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

Display Dot/Bar mode:

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