DATASHEET

Custom PCB

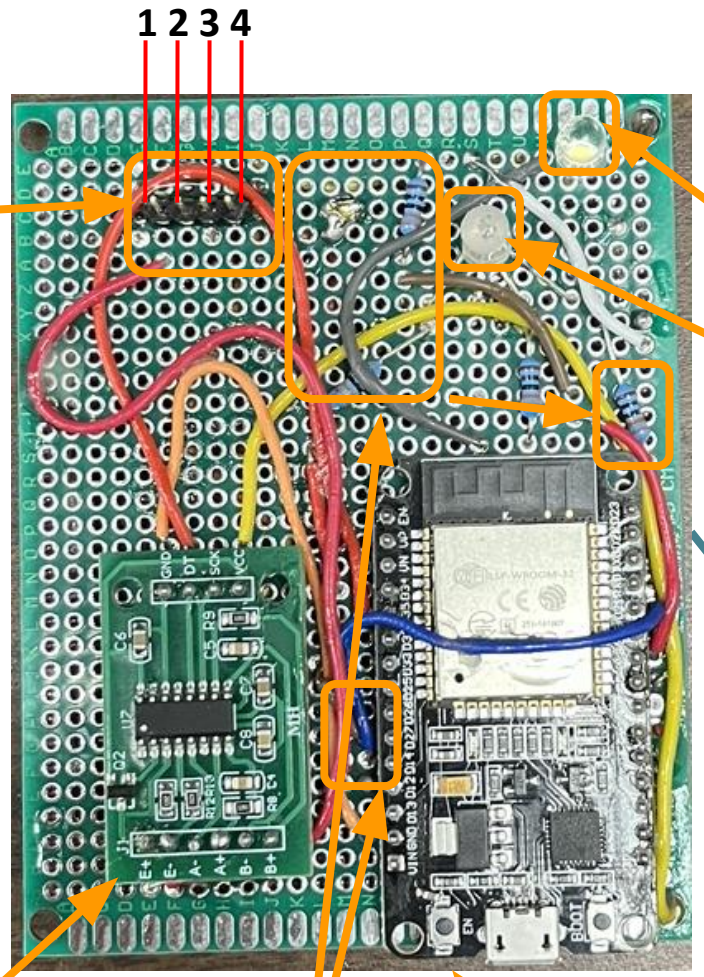
Load Cell Unit

Pins: (LEDs in Top Right) (L→R)

1 = E+ → Red
2 = E- → Black
3 = A- → White
4 = A+ →Green

(Board → Load Cell Wire Color)

Power: USB G in ESP 32 Port



Indicators:

Dim White (LED #1): Powered On
Bright White (LED #1): Program Running
Off (LED #1): Powered Off

Red (LED #2): 0%-33.33% weight range
Yellow (LED #2): 33.33%-66.67% weight range
Green (LED #2): 66.67%-100% weight range
Off (LED #2): Program Halt

LED #1

LED #2

Note on Load Cell Wires:

Separate connections are made typically since the wires of the load cell are too fragile to be permanently soldered on the PCB, causing wire strain and irreparable damage to board functionality if broken, or snapped. Hence use this datasheet to make safe reconnections everytime upon disconnect/use.

The wires are originally bundled and placed in the enclosure, but this is a safety feature for the load cell wires, and it also ensured PCB universality

SYSTEM DIAGRAM

L1: LED #1
L2: LED #2
R: Resistors (330 Ohms)
DISPLAY: 4-bit barcode bmp files
Pink wire: DT, SCK, Power, A+/- Connections
Red Wires: RGB/On Connections
Blue Wires: GND (0V)
Brown Wire: Load Cell Analog A+/A- (Pins)
Green Wire: USB - B (Power On)