Push to make switch

0.1μ F   10kΩ

Servo Plug input
(to connect to
encoder output)

R2 - 10kΩ

R1 - 100kΩ

**Arduino
Nano**
(328p processor)

D3 D2 GND

A0   A4 A5   5V GND   VIN

1 2 3 4
VDD GND SCK SDA

1.3" 128x64
OLED I2C
display

Arduino Pin   Description

GND   To display GND, Input GND and
           push-button switch.
D2   PPM input via optional 0.1uF&10k protection
D3   To push-button switch.

A0   Voltage sense via R1/R2 junction (see
           sketch comments).
A4   To display SDA.
A5   To display SCL.
5V   To display VCC.
VIN   To input +ve.

Transmitter Voltage and PPM display – Nov 2022.   Sketch: LemonRX_Meter.ino

Notes for LemonRX_meter.ino

Library `U8g2lib is needed.`

The push button toggles between 3 available screens.
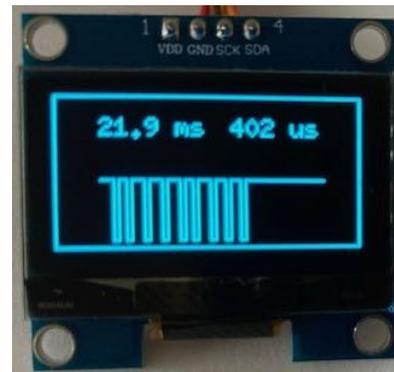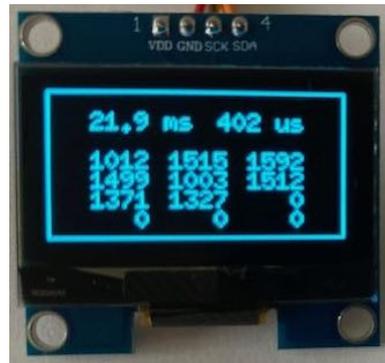
`PPM_DISPLAY_CHANNELS` sets the number of channels to display, max of 12. If set to 6 or less then the trace will appear on second screen – if the third screen is not required then MAXSCREEN can be changed to '1'.

Integer 'LOWVOLT' variable is set to 7 for 2S lipo, as explained in the comments this can be changed to suit nicad etc.

'Low Volts' warning will appear across ppm screens as well as on first screen if triggered.

A USBasp programmer was used to eliminate bootloader, the graphics library uses a lot of memory and there is ~15% free on a Nano.