OMEGA D2 PRO DASH MENU FOR VERSION 7.18 CODE

Note: GPS Data Stream is accepted on the Yellow or Red connector when Direct is selected.
GPS Data Stream is only accepted on the Red connector when an ECU stream is selected.

Refer to User Guide for Detailed explanation

Hold Blue & Gray to enter setup menu. Click on Red to enter INITIAL SETUP.	Click on Gray to leave setup menu – dash will reset and will show the code version 7.18
	Click on Red to select the menu item.
Click on Blue & Green to scroll through parameters	Click on Gray to save selection and back to home.

1. DISPLAY MODE
   a. TRACK
   b. TURBO
   c. DEMO RUN
   d. DEMO FIX
   e. GPS (shows LAT, LONG & Satellite count – appears after GPS enabled in 3e)
   f. RALLY
   g. STAGE
   h. SQ6 @ 115.2K (connect to Pectel SQ6 ECU)
   i. SQ6 @ 38.4K (connect to Pectel SQ6 ECU)
   j. LOGGER DEFINED (dash fields are set in the Pi Delta Logger setup program)
   k. TRACK DAY

2. SENSOR MODE (S=serial, C=CAN) (GPS data is in Red connector except for Direct+GPS mode)
   a. DIRECT
   b. S   Honda 1.1 V7A
   c. S   AEM UEMS (universal engine monitoring system)
   d. C   AMR GT4 N24 (Aston Martin Vantage GT4)
   e. C   EFI Euro 12
   f. C   EFI Euro 6
   g. C   EFI Euro 4
   h. S   EFI 1.2 ECU
   i. S+C   Zytek 452
   j. C   Lotus 08 on
   k. C   Lotus to 08
   l. C   Abarth 500
   m. C   BMW E87+E9X
   n. C   BMW Mini R56
   o. C   BMW Mini R53
   p. C   BMW Mini R50
   q. C   Motec Set1*S
   r. C   Motec Set1
   s. S   Motec Set1
   t. C   Motec Set3
   u. S   Motec Set3
   v. S   LIFE F88 (DP02)
   w. C   MBE 992cc66b (992 is the model of the ecu)
   x. C   BMW Z4 (BMW Mtsp 406 ECU)
   y. S   BMW '94 (similar to Pi 2 decodes)
   z. S   BMW '93 (similar to Pi 2 decodes)

   aa. S   INTERPORT
   bb. S   MBE
   cc. C   Bosch M3.1 F3
   dd. C   PECTEL CAN
   ee. S   PECTEL 3B

3. OTHER
   a. SET DEFAULTS
   b. LOGGER PROFILE
      i. Logging Off
      ii. Log rate High (3.7 hours of log time. See product flyer for channel log rates)
      iii. Log rate Med (7.8 hours of log time. See product flyer for channel log rates)
      iv. Log rate Low (26.6 hours of log time. See product flyer for channel log rates)
      v. Log GPS
   c. SERIAL OUTPUT (Default is No)
      i. No
      ii. Video – select when using the Pi Video Overlay Unit
      iii. Log – select when Omega is streaming data to a Pi Delta or Compact Logger.
   d. CAN OUTPUT
      i. No CAN out
      ii. VIDS + no Term
      iii. VIDS + Term
      iv. CLOG + No Term
      v. CLOG + Term
   e. GPS BAUD RATE (use blue/green to select rate – Pi GPS is 19,200) Once the baud rate is set then you will see GPS selections in the Beacon and Speed menus. Choices are:
      i. Off
      ii. 57,600
      iii. 38,400
      iv. 19,200 (use for Pi GPS)
      v. 9600
      vi. 4800
      vii. 2400
      viii. 1200
      ix. 600
      x. 300
   f. BRIGHTNESS etc
      i. Back-lighting (looks like bACH in upper right corner) use blue/green to adjust backlight brightness: 0 to 100
      ii. Colour (use blue/green to adjust backlight color: 0 blue, 100 is red)
      iii. Shift light brightness (looks like SHIFt in upper right corner) (use blue/green to adjust shift light brightness: 0 to 100)
   g. FORMAT SD Card
      i. ARE YOU SURE? (always say NO) WIPE appears in upper right corner.

4. BEACON
   a. FITTED
   b. USE GPS? (use blue/green to choose Yes or No – this will only appear if you set the GPS baud rate from the OTHER – GPS BAUD RATE menu)
      i. GPS Bcn Radius (selection appears only if USE GPS is yes. Default is 50 meters)

- c. MASK (use blue/green to adjust beacon mask time)
- d. ON DRIVE OUT? (default is NO: dash will not inject beacon on pit drive out)
5. WHEEL SPEED
    - a. UNITS: MPH or KPH (looks like hPh)
    - b. OUTING SPEED: default is 20 then dash enters RACE mode ie alarms will work, laptime will show on dash, 2 pages of RACE display available to driver.
    - c. SPEED STRATEGY
        - i. Fastest of All
        - ii. RWD Dynamic
        - iii. FWD Dynamic
        - iv. Average Rear
        - v. Average Front
        - vi. Slowest Rear
        - vii. Slowest Front
        - viii. Fastest Rear
        - ix. Fastest Front
    - d. SYSTEM SPEED
        - i. Speed Channels
        - ii. GPS Speed
        - iii. ECU Road Speed (only appears if you select an ECU stream from SENSOR MODE)
    - e. SETUP WHEEL FL
        - i. Use Digital? (you will see CFG 1 in the upper right corner)
        - ii. DIAMETER
        - iii. TRIGGERS
        - iv. INPUT TYPE (Active or Passive)
    - f. SETUP WHEEL FR
        - i. Use Digital? (you will see CFG 2 in the upper right corner)
        - ii. DIAMETER
        - iii. TRIGGERS
        - iv. INPUT TYPE (Active or Passive)
6. RPM
    - a. REDLINE (for quick setting click on RED, leading number flashes, change with Blue/Green – click on RED again to choose next number)
    - b. SCALE
    - c. LAUNCH (used for standing starts – set to redline value if your series does not use standing starts)
    - d. PULSES
        - i. Pulses / 2 rev = pulses per 2 revolutions of the engine (ie 4 stroke).
    - e. INPUT TYPE – if you don't see RPM, change your input type. The wrong setting will not damage the dash. Be sure to use a tachometer signal from your ignition system. Do not connect the RPM input to your ignition coil – use a Pi RPM sensor.
        - i. P down (pull down)
        - ii. P uP (pull up)
        - iii. PASI u (passive)
    - f. FILTER TYPE
        - i. None
        - ii. diS 3 – heavy filter for distributorless ignition systems
        - iii. diS 2 – medium filter for distributorless ignition systems

          iv. diS 1 – light filter for distributorless ignition systems

          v. SP 3 – heavy RPM spike filter for standard ignition systems

          vi. SP 2 – medium RPM spike filter for standard ignition systems

          vii. SP 1 – light RPM spike filter for standard ignition systems

7. GEARS
   a. ENABLED (When set to YES, the following choice appear)
   b. TYPE
      i. Gpot (gear sensor potentiometer connected to Fuel Pressure input)
      ii. Auto
   c. FILTER (default is 20)
   d. No of GEARS (enter number of gears)
   e. Reset Gears (only appears on Auto Selection from TYPE – clears learned ratios)
      i. Confirm Reset
   f. Reverse GEAR (only appears on Gpot selection from TYPE)
      i. Yes
      ii. No
   g. Cal Gear Pot (only appears on Gpot selection from TYPE)
      i. Select Neutral
      ii. Select 1st
      iii. Select 2nd
      iv. Select 3rd
      v. Select 4th
      vi. Select 5th
      vii. Select 6th
      viii. Select 7th
      ix. Select 8th
      x. Select 9th
      xi. Select Reverse
   h. FILTER (only appears for AUTO gear selection. 20 is default, 100 is max. Leave on 20 until dash learns gears. Higher numbers prevent wrong gear from being displayed if noise & interference are present)

8. OIL PRESSURE
   a. Use Analogue?
      i. No
      ii. Hide (do not display on dash – useful when car has no OP sensor)
      iii. Yes
   b. UNITS
   c. ALARM
   d. SELECT SENSOR
      i. Pro 2400 PSI
      ii. Pro 160 PSI
      iii. Pro 80 PSI
      iv. Pro 40 PSI
      v. Club Sensor (ie 21A-0091: 150 PSI/10 BAR sensor)
      vi. Custom Sensor

9. COOLANT TEMP
   a. Use Analogue?
      i. No

        ii. Hide (do not display on dash – useful when car has no CT sensor)

        iii. Yes

    b. UNITS

    c. ALARM

10. FUEL PRESSURE

    a. Use Analogue?

        i. No

        ii. Hide (do not display on dash – useful when car has no FP sensor)

        iii. Yes

    b. UNITS

    c. ALARM

    d. SELECT SENSOR

        i. Pro 2400 PSI

        ii. Pro 160 PSI

        iii. Pro 80 PSI

        iv. Pro 40 PSI

        v. Club Sensor (ie 21A-0091: 150 PSI/10 BAR sensor)

        vi. Custom Sensor

11. OIL TEMP

    a. Use Analogue?

        i. No

        ii. Hide (do not display on dash – useful when car has no OT sensor)

        iii. Yes

    b. UNITS

    c. ALARM

12. BATTERY

    a. ALARM

13. THROTTLE

    a. Use Analogue?

        i. No

        ii. Hide

        iii. Yes

    b. SET MAXIMUM (push pedal to floor and press red button – dash shows done)

    c. SET MINIMUM (release pedal and press red button – dash shows done)

14. STEERING

    a. SET RIGHT LOCK (turn wheel full right and press red button – dash shows done)

    b. SET CENTRE (turn wheel straight and press red button – dash shows done)

    c. SET LEFT LOCK (turn wheel full left and press red button – dash shows done)

15. F BRAKE PRESS

    a. BRAKE P UNITS

16. R BRAKE PRESS

    a. BRAKE P UNITS

17. THERMOCOUPLE 1

    a. UNITS (choose F or C)

    b. ALARM

18. THERMOCOUPLE 2

    a. UNITS (choose F or C)

    b. ALARM

19. FL DAMPER
    a. DAMPER UNITS
    b. DAMPER INVERT (default is yes, click on red to change to no)
    c. DAMPER LEN mm (50, 75, 100, 125, 150, 200, 250)
20. FR DAMPER
    a. DAMPER UNITS
    b. DAMPER INVERT (default is yes, click on red to change to no)
    c. DAMPER LEN mm (50, 75, 100, 125, 150, 200, 250)
21. RL DAMPER
    a. DAMPER UNITS
    b. DAMPER INVERT (default is yes, click on red to change to no)
    c. DAMPER LEN mm (50, 75, 100, 125, 150, 200, 250)
22. RR DAMPER
    a. DAMPER UNITS
    b. DAMPER INVERT (default is yes, click on red to change to no)
    c. DAMPER LEN mm (50, 75, 100, 125, 150, 200, 250)
23. FUEL
    a. Enabled
        i. No
        ii. Yes
    b. Units (only appears when Yes selected for Enabled)
        i. US Gal
        ii. Litre
        iii. Gal
    c. Tank Capacity
    d. Alarm
    e. Sensor Trim (default is 1.000)

WATCHING AND CHECKING SENSORS

1. To enter from the power up screen, hold the blue button
    a. WATCH CHANNELS appears – click on Red to enter
    b. Watch THROTL & ACCEL page (lateral accel)
    c. Watch SPEED
    d. Watch FRONT DAMPERS (FL on Left and FR on Right)
    e. Watch REAR DAMPERS (RL on Left and RR on Right)
    f. Watch Brakes (Front PSI and Rear PSI on top row, % front/rear on bottom row)
    g. Watch THERMOCOUPLES (TC1 on Left and TC2 on Right)
    h. Watch STEERING (Raw 0 – 100% on left, Calibrated Full left to Full Right on right)
    i. Watch Log Mem Left (in hours, minutes, seconds)
2. To leave click the gray button twice

PIT LANE SETUP MODE – SET GPS BEACON LOCATION – ERASE LOGGED DATA.

1. From the power up screen, hold the Red button to enter, blue/green to select menu
    a. Click on red to enter PIT LANE SETUP
    b. RESET LAPCOUNT – click on red to reset
    a. ZERO SENSORS – click on red to zero. This zeroes brakes, dampers, steering, and internal three axis accelerometer.
    b. RESET LOGGER – click on red to enter.
        i. CONFIRM RESET – click on red and you have erased all the logged data in your dash. Logged data can also be erased from a selection in the Pi Toolset PC program.
    c. MANUAL LOGGING - click on red to manually log data. Dash annunciators blink to indicate manual logging.
    d. SET GPS BEACON – click on red to enter. Dash shows BEACON IS HERE. Drive car to start/finish line and click on red button. Dash shows DONE. First time back to the GPS location, the dash shows OUT LAP time.
    e. CLUB QUAL MODE
        i. ENABLED
        ii. RESET

NOTES: ON PIT PAGE 1: hold the green button and the dash will show in text for the channels displayed