

# R3

**3" fully round,  
edge-to-edge,  
touch screen  
display**



## Key Features:

- / 800 NIT Sunlight Readable
- / -30°C to +77°C Operating temp
- / Drop-in replacement for 3" gauges
- / 6 x Analogue Inputs,  
1 x Frequency Input
- / 1 x CANbus
- / 4 x Digital Inputs
- / NMEA 2000™ Isolated
- / IP67 All Round Protection

**THE R3 JOINS OUR EXISTING RANGE OF RUGGEDISED, RELIABLE CAN DISPLAYS OFFERING A CUSTOMISABLE SCREEN WITH CAPACITIVE TOUCH ABILITIES, PROVIDING THE STYLING OF A TRADITIONAL ANALOGUE GAUGE WITH THE MODERN ABILITY TO CHANGE LOOKS TO SUIT ANY APPLICATION.**

The fully round LCD-colour display, the R3 is fully sunlight readable, as well as sealed to meet IP67 standards. With CAN bus, analogue and digital inputs supported, the R3 is suited to a wide range of applications.

High performance custom software applications can be rapidly created using the software development kit (SDK). Alternatively, our internal Software Engineering team can build custom applications for you, from an integrated control & monitoring system using data logging and alarm functionality to specific application based HMI relaying to Multi Function Displays.

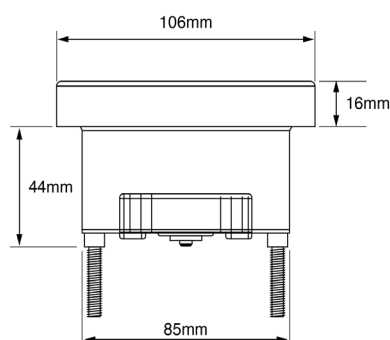
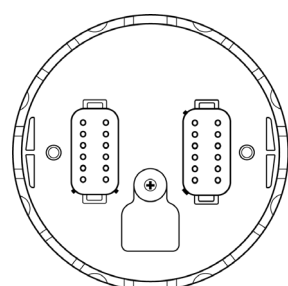
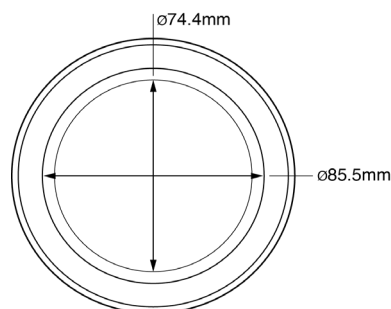
## Accessories

- > Cable Harnesses
- > Branding - Labels and Boxes
- > GPS Sensor
- > Sun cover

## Part Numbers:

3000

R3 3" CAN Display



## Hardware

|              |            |
|--------------|------------|
| CPU          | STM32F4    |
| Flash Memory | 8MB        |
| RAM          | 32MB SDRAM |
| EEPROM       | 2KB        |

## Mechanical

|               |                          |
|---------------|--------------------------|
| Case Material | ABS                      |
| Case Colour   | Anthracite Grey          |
| Dimensions    | 106mm Round x 60mm Depth |

## Electrical

|                    |  |
|--------------------|--|
| Display            | PCAP LCD 2.93" Round   |
| Resolution         | 432 x 432  |
| Active Area        | 74.39mm Diameter   |
| Viewing Angle      | 70 degrees left/right/down/up  |
| Contrast Ratio     | 700:1  |
| Brightness         | 850 NIT (cd/m²) Full sunlight readable   |
| Power Requirements | 10V to 32V DC  |
| Sounder            | Internal Buzzer  |
| Connection         | (2) 12 Pin Deutsch DT04-12PA / 12PB Moulded in Receptacle - mates with DT06-12SA / 12SB respectively |

## Input/Output / Communications

|                       |   |
|-----------------------|---|
| Analogue Input        | 6 Analogue Inputs -<br>1 X 0-1000 OHM, 0-2.5v, 0-5v, 0-10v<br>5 X 0-1000 OHM                |
| Switch Inputs         | 4 x Switch Inputs :Switched Contact to Ground or Open Collector Type (max frequency = 50Hz) |
| RPM Input             | Magnetic pick up or all effect and similar with push-pull output- max. frequency = 5KHz     |
| 1 Relay/Buzzer Output | Open collector suitable 0.5A continuous load  |
| Communications        | 1 X CAN bus 2.0B (isolated)   |

## Environmental

|                       |                            |
|-----------------------|----------------------------|
| Operating Temperature | -30°C to +77°C             |
| Storage Temperature   | -30°C to +85°C             |
| Degree of Protection  | IP67 All round, IP66 Front |