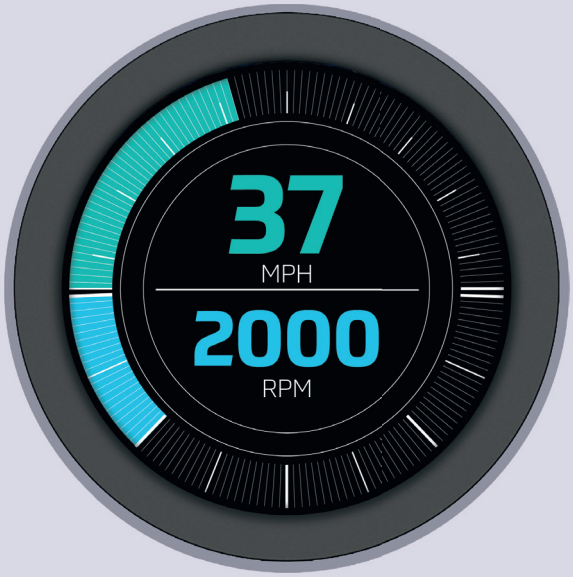
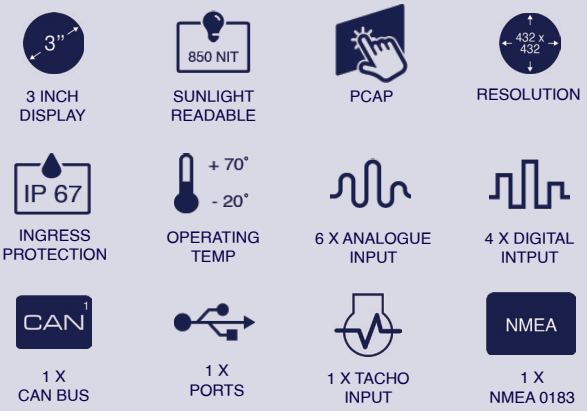
R3
3” ROUND TOUCH DISPLAY

VEETHREE GROUP



Technical data



R3
3” ROUND COLOUR DISPLAY

THE R3 IS A FULLY ROUND, EDGE-TO-EDGE, 3 INCH TOUCH, COLOUR DISPLAY.

The R3 offers a customisable screen with capacitive touch, giving the gauge the styling of a typical analogue gauge, with the modern ability to change looks to suit any application.

The fully round PCAP LCD colour display can be viewed in full sunlight and the ruggedised unit is sealed to meet IP67 standards. With CAN, RS485, analogue inputs and digital intputs, the display is suited to a wide range of applications. External Buttons can be added through a compatible CAN keypad.

It meets the need for tough, flexible instrumentation while offering high performance and design specifications. Custom software applications can be developed through Veethree’s team of specialist engineers.

ALTRONICS
CS 69024, F-69811 Tassin
Tel : +33 (0) 472 370 470
info@altronics.fr
www.altronics.fr

R3

3” ROUND TOUCH DISPLAY

Reliability

Our products continue to be successfully deployed in an enormously diverse range of applications where total reliability is vital.

All products, bespoke or standard range are backed up by a dedicated central team of specialist engineers able to rapidly adapt any product for a specific application and to provide an unrivalled level of customer support.

Displays are also supported with a return to base extended 24-month Manufacture warranty against mechanical failure or material defects.

Software

Our SDK is offered for a one-off licence fee from which customers can develop their own bespoke application solution. Available are optional plugins for CANopen, J1939, NMEA 2000, and support hours are included should your engineers need any help along the way.

Alternatively, we can develop bespoke software to your specification using our experienced in house engineers.

Over the years our engineers have developed software for our displays to run rock crushers & mining machinery, measure performance of spraying equipment, acting as battery monitors, boat gyro stabilisers, plus many more including military and aerospace applications.

Also available is our Engine Monitor standard software for Industrial and Marine, which can be pre-loaded to our displays receiving and displaying J1939 engine and transmission data, including common Tier4 parameters, with active alarms (from DM1) & NMEA 2000 data, where supported.

Accessories

- Cable Harnesses
- GPS Sensor
- Branding - Lables & Boxes

ALTRONICS
CS 69024, F-69811 Tassin
Tel : +33 (0) 472 370 470
info@altronics.fr
www.altronics.fr

R3
3” ROUND TOUCH DISPLAY

Specifications

Hardware	
CPU	STM32F4
FLASH Memory	8MB
RAM	256MB
EEPROM	4KB

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

Environmental	
Operating temperature	-20°C to +70°C
Storage Temperature	-30°C to +80°C
Degree of Protection	IP67

Input/Output / Communications	
6 Analogue Inputs	1 X 0-1000 OHM, 0-2.5v, 0-10v 5 X 0-1000 OHM
4 Switch Inputs	Switch contact
RPM Input	Magnetic pick up or all effect & similar with push-pull output- max. frequency = 5KHz
1 Relay/Buzzer Output	Open collector suitable 0.5A continuous load
Communications	1 X RS485, 1 X CAN Bus 2.0B (isolated) 1 X PWM Input

Mechanical	
Case material	ABS
Case colour	Anthracite Grey
Dimensions	4.17” Round x 2.35” Depth

Part Number	
3000	R3 3” Fully Round CAN Display

ALTRONICS
CS 69024, F-69811 Tassin
Tel : +33 (0) 472 370 470
info@altronics.fr
www.altronics.fr

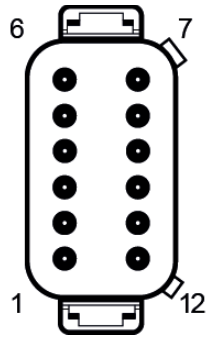
R3

Connectors (Version No. 06)

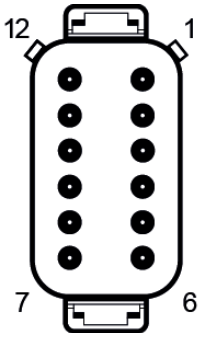
Connector 1	
1	Ground (main power supply)
2	Power Input (main power supply - externally fused)
3	Dimmer Input (PWM or Analogue)
4	Analogue in 1 (0 - 1k OHM)
5	CAN Ground
6	CAN Power
7	NMEA 2000 / J1939 - CAN H
8	NMEA 2000 / J1939 - CAN L
9	NMEA 0183+ (Differential)
10	NMEA 0183- (Differential)
11	Power supply (output for GPS)
12	Ground supply (output for GPS)

Connector 2	
1	Analogue Ground
2	Digital Out 1 (Relay/Buzzer)
3	Analogue In 2 (0 - 1k OHM)
4	Analogue In 3 (0 - 1k OHM)
5	Analogue In 4 (0 - 1k OHM)
6	Analogue In 5 (0 - 1k OHM)
7	Analogue In 6 (0 - 2.5VDC / 0 - 10VDC) (0 - 1K OHM)
8	Digital Input 1
9	Digital Input 2
10	Digital Input 3
11	Digital Input 4
12	Frequency Input

Primary



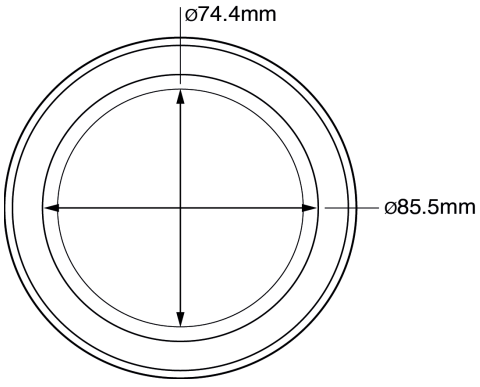
Secondary



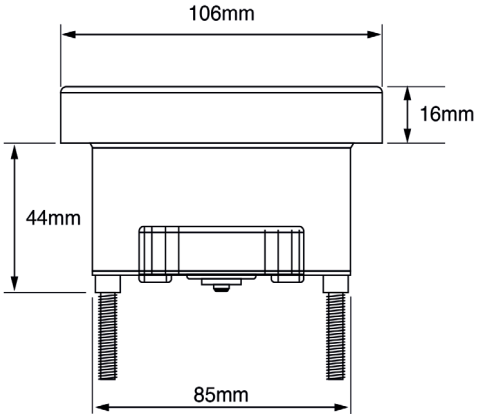
Please note: Pins 1 and 5, 2 and 6 must be connected for operation.

Dimensions

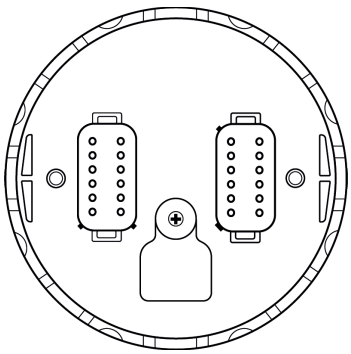
FRONT VIEW



SIDE VIEW



REAR VIEW



ALTRONICS
CS 69024, F-69811 Tassin
Tel : +33 (0) 472 370 470
info@altronics.fr
www.altronics.fr