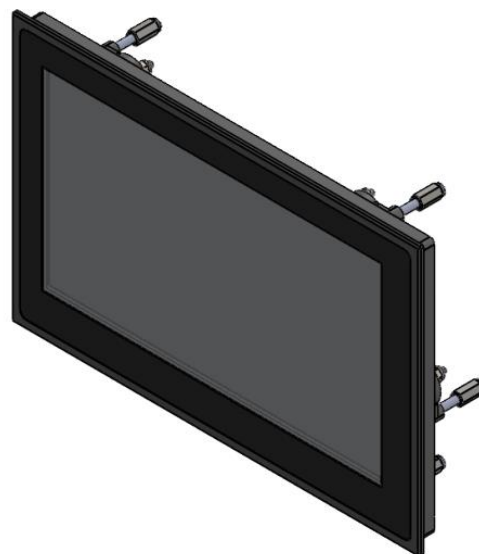


#### Product Features

- 7.0 inch 24 Bit Colour TFT with Resistive Touch and Front Mounting Bezel
- Supply Input Voltage 5VDC or 9V-30VDC, Outputs 3.3V, 5V and 3x Isolated 5V
- 2x Isolated RS422/RS485/TTL, 1x Isolated 10/100 Ethernet, 1x Isolated CANBUS
- 1x Isolated RS232, 1x Isolated I2C Master
- Mini USB Host / Device Interface 2.0 for PC or Memory Stick via mini USB adaptor
- 5x+3x Isolated Digital Inputs, 8x Isolated Digital Outputs ( inc 2xPWM )
- 2x PT100/PT1000 Thermistors, 2x non Isolated Analogue Inputs 0-1V, 0-10V, 0-30V
- 1x Isolated Analogue 4-20mA Input, 1x Isolated Analogue 4-20mA Output
- 4x Isolated 1.7Amp PWM Outputs for solenoid or motor drive
- 1x OneBUS Digital Sensor Port
- Optional 2W PCM Audio Output module, additional CAN, RS232 and I2C
- I2C connect to 3x Thermocouple Input + 1x Humidity, Temp, Pressure module
- RS232 connect to 1x WiFi module
- Battery-powered Real Time Clock (RTC)

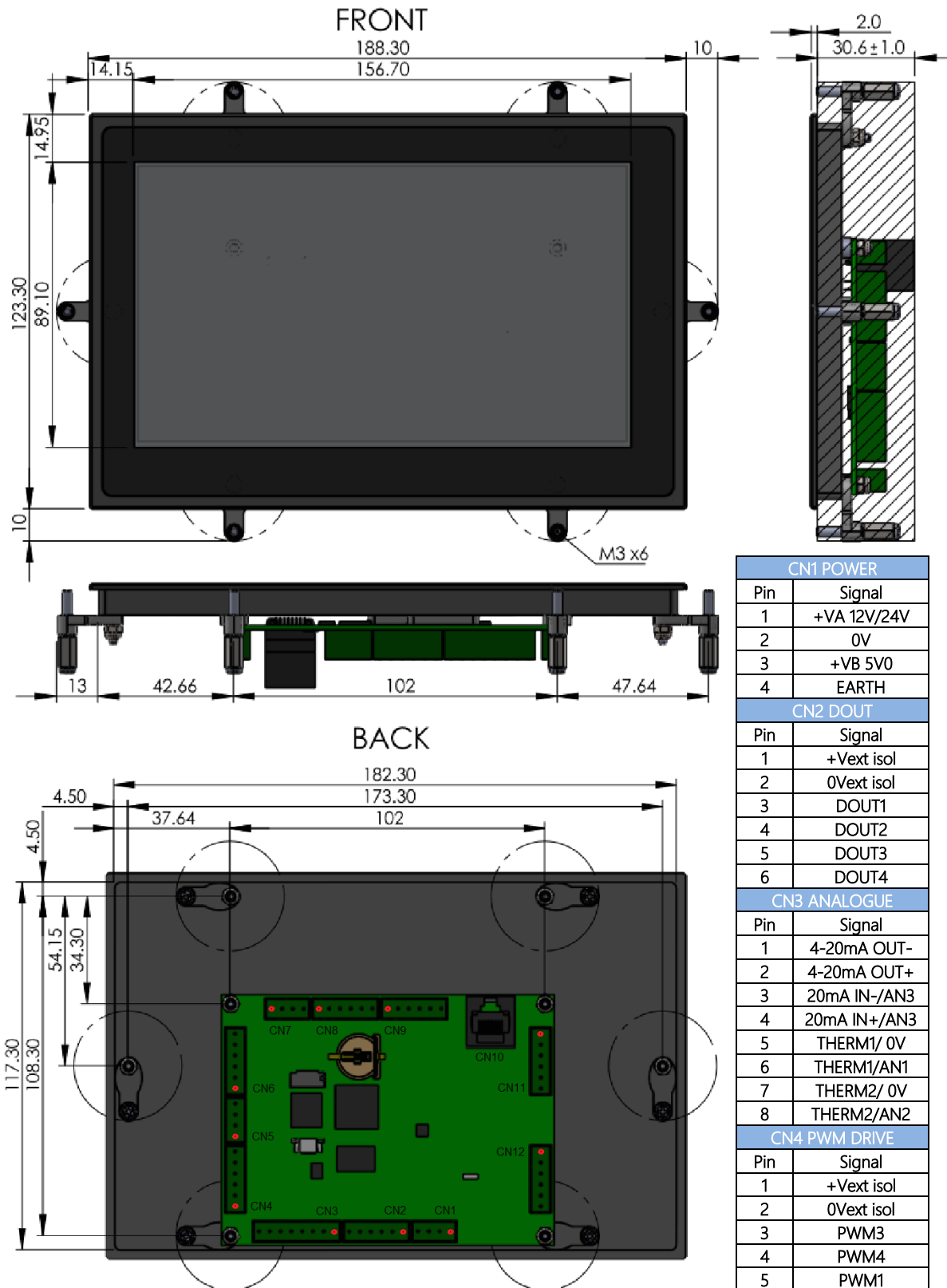


The resistive touch panel provides a cost effective one touch solution capable of accepting stylus, bare or gloved finger. The firmware can adjust sample rate, de-bounce, auto-repeat and acceptance area depending on required action.

Product Parameters	Unit	Min	Max	Notes
Supply Voltage $V_A$	VDC	9	30	Power consumption ~5W with LED backlight 100%
Supply Voltage $V_B$ (output when using $V_A$ )	VDC	4.75	5.25	Power consumption ~5W with LED backlight 100%
Output Voltage 3V3	VDC	3.2	3.4	Maximum current 50mA extra for $V_A/V_B$
Isolated Output Voltage 5V0	VDC	4.5	5.5	Maximum current each output 100mA extra for $V_A/V_B$
Real Time Clock Battery	VDC	3	3	CR1216/CR1225 battery holder
Operating Temperature	°C	-20	70	
Storage Temperature	°C	-30	70	
Relative Humidity	%	20	85	25°C operation, non-condensing
Display Brightness	Cd/m <sup>2</sup>	280	350	

Interface Parameters	Unit	Input		Output		Notes
		Min	Max	Min	Max	
RS422/485/TTL Interfaces – 2.5kV isolation	VDC	-2.5	+5.5	0	+5.5	Internal Isolated Supply
Ethernet 10/100 Interface – 1.5kV isolation	Vpp	-5	+5	-5	+5	
CANBUS Interface - 2.5kV Isolation	VDC	0	5	0	5	
RS232 Interface – 2.5kV isolation	VDC	-15	+15	-2	+7	
I2C Master – 2.5kV isolation	VDC	0	5	0	5	SCL/SDA 3V3/5V selectable
USB Host / Device Supply	VDC	4.75	5.25	4.75	5.25	
Digital Interfaces – 2.5kV Isolation DOUT 9-12	VDC	5	30	5	30	Inputs are jumper select for 5V or 12V-24V
Analogue DC Inputs non Isolated	VDC	0	30			Selectable Jumper, 12 bit ADC
4-20mA Analogue Interfaces – 2.5kV isolation	VDC	0	10	0	5	Jumper selectable
PWM/Digital Outputs 1.7Amp – 2.5kV Isolation	VDC			9	36	Overload Protection
PWM/Digital Outputs DOUT 1-8 Isolated 2.5kV	VDC			0	$V_A/V_B$	100mA maximum each output
ONEBus Digital Sensor Port – non isolated PL2	VDC			0	3.3	Internal 4.7k Pull Up to 3V3

PWM outputs can be used as digital outputs by software configuration.



The COM pin can be set to +ve or -ve according to the DIN requirement.  
 All +Vext pins are isolated from each other and require an input voltage.  
 The 5Visol 1/2 and 0Visol 1/2 pin pairs are jumper connectable to 2 internally isolated PSUs or can be connected externally to other power supply zones. Red dot defines pin 1.