



## Technical Specifications

### POWER

<b>Power Supply</b>	USB/PSU 5 – 24vdc mains adapter
<b>Mains Input Voltage</b>	Voltage 1-3 range 45vac – 230vac. 50/60Hz. Isolated from other I/O
<b>Wiring (Mains)</b>	Cage-Clamp terminals rated at 630v 12Amp Suitable for cables 0.14mm <sup>2</sup> to 2.5mm <sup>2</sup>
<b>Wiring (Other)</b>	Cage Clamp terminals rated at 250v 2Amp Suitable for cables 0.5mm <sup>2</sup> to 1.5mm <sup>2</sup>
See Wiring Diagram on Page 4	
<b>Current Consumption (Transmitting)</b>	85mA
<b>Current Consumption (Receiving)</b>	20mA
<b>Current Consumption (Sleep Mode)</b>	250nA

### WIRELESS

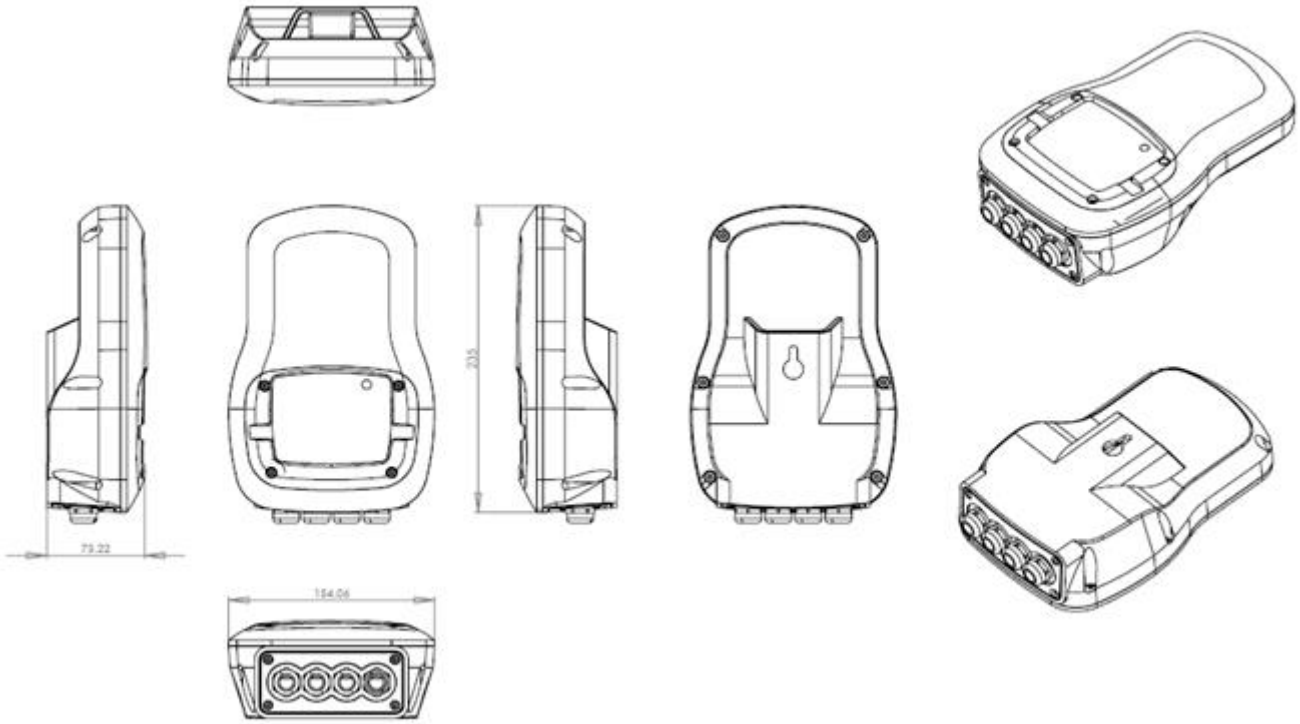
<b>Operating Frequency</b>	3G or GPRS (select on purchase)
<b>Firmware Upgrades</b>	Transmitted over-the-air
<b>Access to Interface</b>	Local or Remote (www) if enabled

### INPUTS AND OUTPUTS

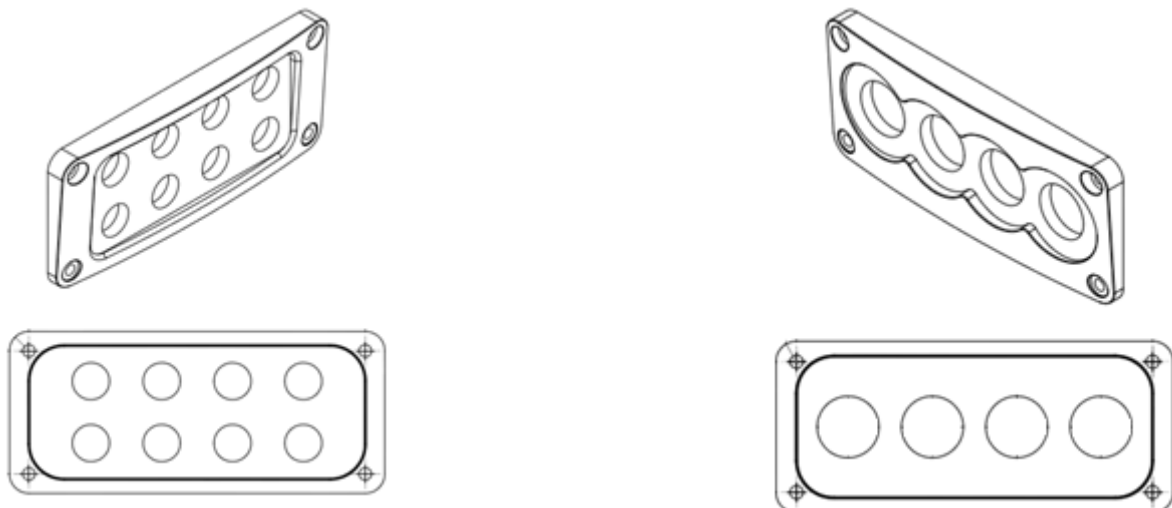
<b>Voltage Measurement</b>	3 x Voltage Inputs rated @ 45 – 230 VAC
<b>Neutral</b>	1 x Neutral Input Rated @ 45 – 230 VAC
<b>Current Measurement</b>	4 x CT Inputs 0.333 v or 75 mA
<b>Status or Pulsed Count</b>	2 x Digital Inputs (Volt Free Contact)
<b>Status of Totaliser Output</b>	1 x Digital Triac Output for Alarms or BMS Pulsed Meter Input
<b>Temperature</b>	5 x 10K3A1 Thermistor Inputs
<b>4-20mA</b>	3 x 4-20 mA Inputs for various Transducers (Loop Powered)
<b>Dual Input Interface</b>	Used for Temp/RH Input
<b>Serial</b>	RS232 and RS485

# CASING

<b>Material</b>	Acrylonitrile Butadiene Styrene (ABS),
<b>Dimensions (H,W,D)</b>	235.00 x 154.06 x 73.22 mm
<b>Volume</b>	$3.5 \times 10^{16} \Omega \text{cm}$
<b>Weight</b>	TBA
<b>Colour</b>	Black
<b>IP Rating</b>	67
<b>Approvals</b>	CE
<b>Impact Strength</b>	240J/m
<b>Ultimate Tensile Strength @ 20°C</b>	40Mpa
<b>Elongation at Break @ 20°C</b>	50%
<b>Instantaneous Flexural Modulus @20°C</b>	2200Mpa
<b>Compressive Strength @ 20°C</b>	42Mpa
<b>Specific Gravity</b>	$1.05 \times 10^3 \text{ kg/m}^3$
<b>Poisson's Ratio</b>	0.35
<b>Surface Resistance</b>	$< 10^9 \Omega$
<b>Vicat Softening Point</b>	95
<b>Coefficient of Thermal Expansion</b>	$10.1 \times 10^{-5} \text{ m/m}^\circ\text{C}$
<b>Maximum Operating Temperature</b>	60°C
<b>Temperature Range</b>	-20°C to +60°C
<b>Thermal Conductivity</b>	0.2W/m°C
<b>Specific Heat</b>	1.47kJ/kg°C
<b>Thermal Ignition Resistance</b>	HB @ 1.5mm

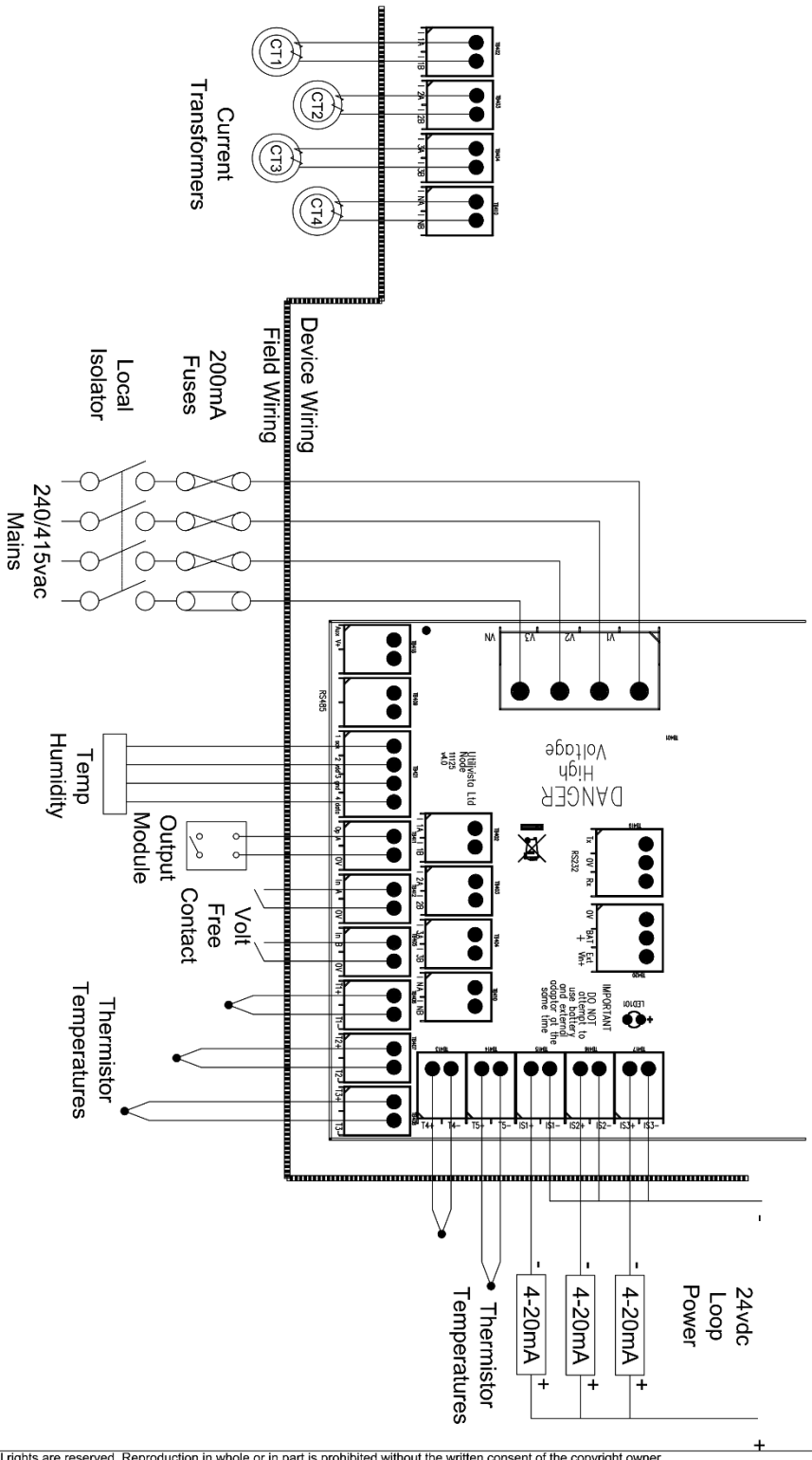


The connections to the **EnCompass** are via cable entry holes in the bottom of the case, where cables pass through glands and terminate into the spring loaded plug-in terminals mounted on the edge of the printed circuit board. The case has a detachable plate that is screwed, complete with seal. This plate can be replaced with a blank or with 4 or 8 holes (See below).



# Utilivista C2i EnCompass Node Schematic

Rev/No | Revision note | Date | Signature/Checked



Approved

<b>Utilivista</b> Telephone: +44 (0)845 4507899 Web: www.utilivista.com Email: enquiry@utilivista.com		Designed by SB		Checked by XXX - 00/00/00		Approved by - date PDS1125 v4.0 24/06/2014		Finance PDS1125 v4.0		Date NTS	
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