



Technical Specifications

POWER

	Power Supply	3.6vdc AA or C type Battery or USB/PSU 5 – 24vdc mains adapter
	Mains Input Voltage	Voltage 1-3 range 45vac – 230vac. 50/60Hz Isolated from other I/O
	Wiring (Mains)	Cage-Clamp terminals rated at 630v 12Amp Suitable for cables 0.14mm ² to 2.5mm ²
	Wiring (Other)	Cage Clamp terminals rated at 250v 2Amp Suitable for cables 0.5mm ² to 1.5mm ²
	See Wiring Diagram on Page 4	
	Current Consumption (Transmitting)	85mA
	Current Consumption (Receiving)	20mA
	Current Consumption (Sleep Mode)	250nA
B	Type	Lithium-Thionyl Chloride
A	Life	Up to 10 years
T	Power	2700mAh (Nodes) 8500mAh (Repeaters/Combined)
T	Dimensions	50.5 x 14.5mm
E	Operating Temperature	-60 to + 85 °C
R	Nominal Voltage	3.6V
Y	Typical Weight	19g

WIRELESS

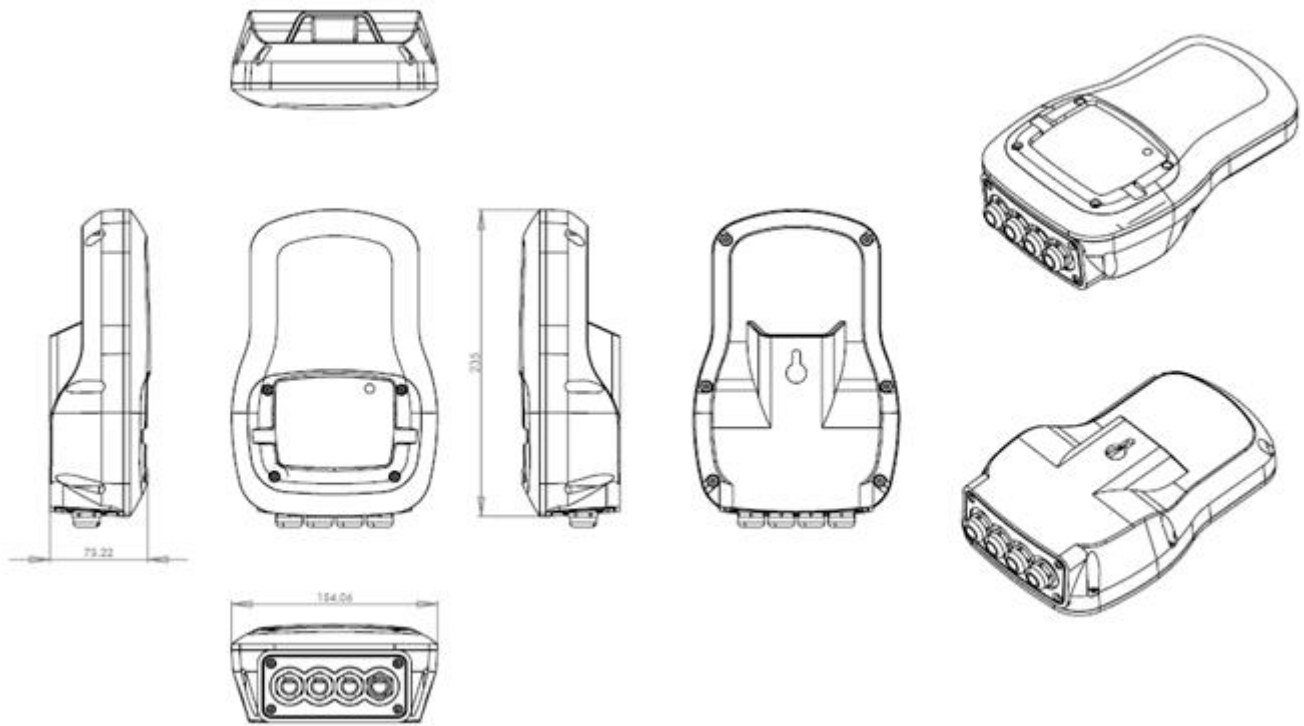
	Communications Range	Up to 1000m Line-of-Sight
	Operating Frequency	868Mhz
	Channel Spacing	12.5kHz / 25kHz
	Receiver Sensitivity	-115dbm
	Maximum Link Budget	135dbm
	Functionality	Bi-directional
	Data Rate	2400 Baud
	Bandwidth	Narrow Band FM
	Transmit Power	+20dbm (100mW)
	Firmware Upgrades	Transmitted over-the-air
	Access to Interface	Local or Remote (www) if enabled

INPUTS AND OUTPUTS

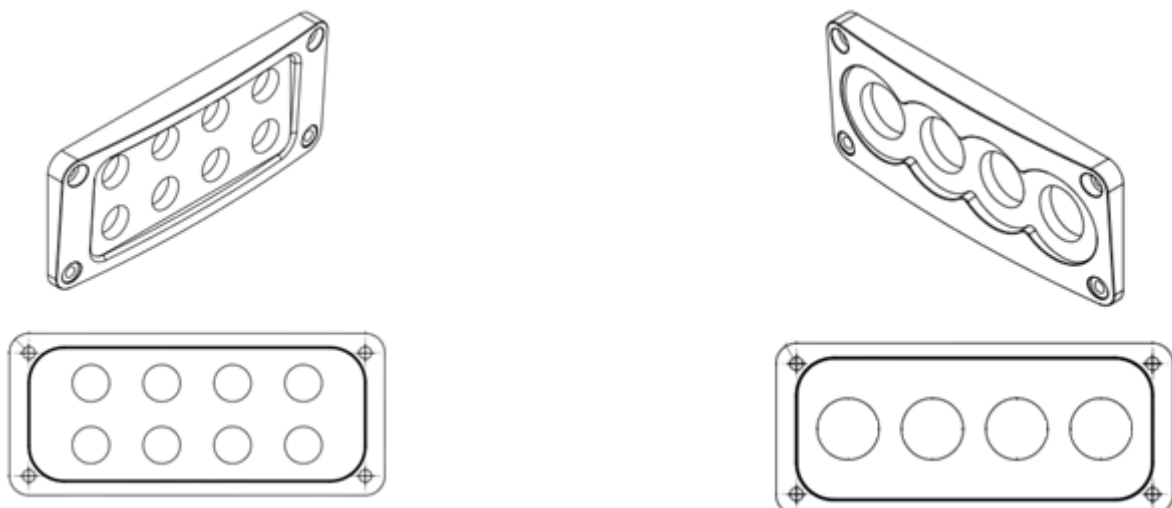
Voltage Measurement	3 x Voltage Inputs rated @ 45 – 230 VAC
Neutral	1 x Neutral Input Rated @ 45 – 230 VAC
Current Measurement	4 x CT Inputs 0.333 v or 75 mA
Status or Pulsed Count	2 x Digital Inputs (Volt Free Contact) or 7 x Digital Inputs (if selected in place of Temp. inputs)
Status of Totaliser Output	1 x Digital Triac Output for Alarms or BMS Pulsed Meter Input
Temperature	5 x 10K3A1 Thermistor Inputs (or 5 extra Digital inputs)
4-20mA	3 x 4-20 mA Inputs for various Transducers (Loop Powered)
Dual Input Interface	Used for Temp/RH Input
Serial	RS232 and RS485

CASING

Material	Acrylonitrile Butadiene Styrene (ABS)
Dimensions (H,W,D)	235.00 x 154.06 x 73.22 mm
Volume	3.5x10 ¹⁶ Ωcm
Weight	1.1kg approx.
Colour	Black
IP Rating	67
Approvals	CE
Impact Strength	240J/m
Ultimate Tensile Strength @ 20°C	40Mpa
Elongation at Break @ 20°C	50%
Instantaneous Flexural Modulus @20°C	2200Mpa
Compressive Strength @ 20°C	42Mpa
Specific Gravity	1.05x10 ³ kg/m ³
Poisson's Ratio	0.35
Surface Resistance	< 10 ⁹ Ω
Vicat Softening Point	95
Coefficient of Thermal Expansion	10.1x10 ⁻⁵ m/m°C
Maximum Operating Temperature	60°C
Temperature Range	-20°C to +60°C
Thermal Conductivity	0.2W/m°C
Specific Heat	1.47kJ/kg°C
Thermal Ignition Resistance	HB @ 1.5mm

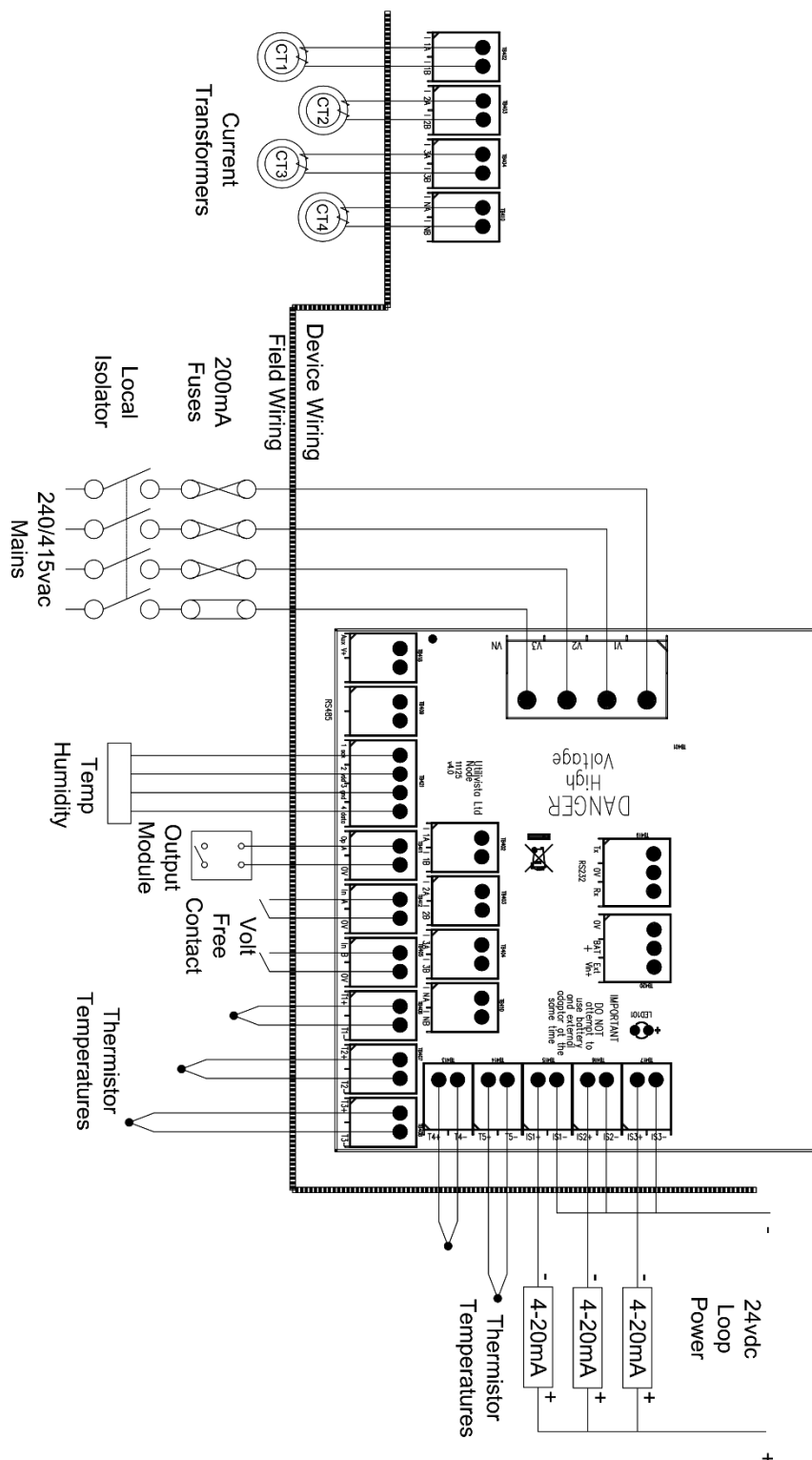


The connections to the **EnCompass** are via cable entry holes in the bottom of the case, where cables pass through glands and terminate into the spring loaded plug-in terminals mounted on the edge of the printed circuit board. The case has a detachable plate that is screwed, complete with seal. This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



Utilivista C2i EnCompass Node Schematic

RevNo	Revision note	Date	Signature	Checked
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Approved

Utilivista		Designed by		Checked by		Approved by		Drawing Title		Drawing Number		Edition	
Telephone: +44 (0)195 4507899		SD		XXX - 00/00/00		XXX - 00/00/00		C2i EnCompass V4.0		POST1725 V4.0		Scale MTS	
Web: www.utilivista.com		Client		C2i EnCompass V4.0		Drawing Title		C2i EnCompass Schematic		POST1725 V4.0		Sheet 1/1	
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