C2i

EnCompass

3G

Technical Specifications

POWER

Power Supply	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

WIRELESS

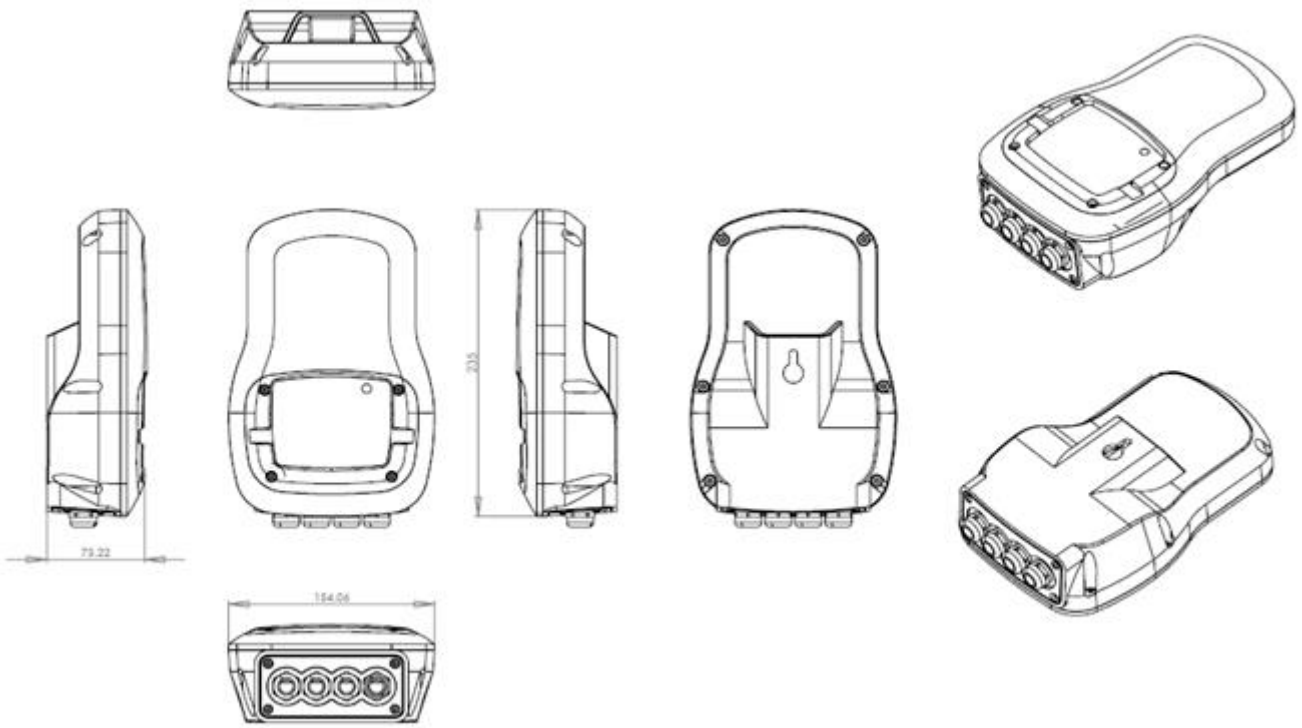
Operating Frequency	3G or GPRS (select on purchase)
Firmware Upgrades	Transmitted over-the-air
Access to Interface	Local or Remote (www) if enabled

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)
Status of Totaliser Output	1 x Digital Triac Output for Alarms or BMS Pulsed Meter Input
Temperature	5 x 10K3A1 Thermistor 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	TBA
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).