C2i EnCompass

Capture data from *any* sensor *and* power source
with the world's first wireless performance monitor.

From only £398 ex. VAT.

Modern sensors capture more data, more accurately, more cheaply than ever,
and never before have we been able to do and see so much with it.

Yet the transfer of data from sensor to sight is frustrated by products unfit for
purpose with a high cost-per-input, making the pathway to software tortuous and
the full potential of data unreachable.

New Product.   New Pathway.   New Potential.

The all-encompassing PRODUCT

Covering every type of input with tremendous functionality.

10-Year Battery Life

The **EnCompass** has very low power consumption for nodes and repeaters.
The 3.6v AA or C-Type battery is replaceable.
Mains power can be used via a USB adaptor or 5-24v PSU.

Up to 1000m Line-of-Sight Range

Using 868MHz frequency with a Texas Instruments range extender gives superior range and penetration without compromising battery life.
This means fewer repeaters.

Reliable Network

Using a bespoke protocol, the self-healing mesh network formed by all your C2i devices is ultra-reliable and secure.

Tough

The **EnCompass**, with its robust ABS case and component potting, is very resistant to physical and chemical damage, and is well suited to harsh environments.

IP67 rated.   CE approved.

Easy to Update

Upgrading and making configuration changes, locally or over the internet is simple.
Upgrades can be sent wirelessly to all C2i devices.

Rapid Deployment

Installation is quick with the LED range indicator, easy sensor setup and clear configuration pages.

Non-Intrusive

Forget complicated power metering. Using Current Transformers and a local voltage reference point from a standard wall-socket, metering is safe, quick and easy.

Resilient Connections

Cable terminations are tightly held by cage-clamp terminals.

Power Inputs
Single or Three Phase

3 Voltage inputs
plus Neutral

4 Current Inputs

Auxiliary Power Supply

and

21
INPUTS

Sensor Inputs
Serial Digital Analogue

RS485 and RS232 Serial
Connections

Combined Humidity and
Temperature Input

2 Digital Inputs

3 4-20mA Analogue Inputs

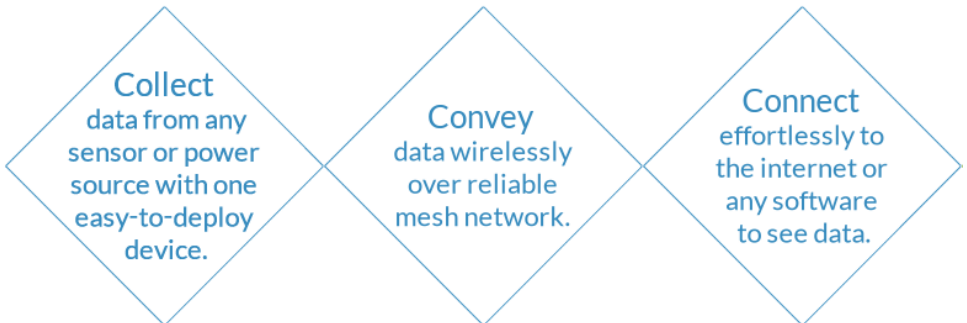**5** Temperature Inputs
or extra Digital Inputs

Triac Digital Output

Available on 868MHz or 3G.

Entranet gateway/receiver required to operate **EnCompass** 868 .

The all-encompassing PATHWAY

A seamless stream of innovation taking data to its full potential.

The complete sensor-to-sight solution, right out-of-the-box.

Collect
data from any
sensor or power
source with one
easy-to-deploy
device.

Convey
data wirelessly
over reliable
mesh network.

Connect
effortlessly to
the internet or
any software
to see data.

Export data directly with plug-and-play connectivity.

CSV, MODBUS, BACNET, SCADA/DCS, Lonworks, eSight,
Honeywell Hawk and Trend BMS are supported.

The all-encompassing POTENTIAL

An astonishing array of applications awaits.

Sensor applications such as storage tank levels, flow metering, pressure monitoring, vibration analysis, greenhouse light and humidity monitoring, soil analysis and grain-bin temperature monitoring.

Power applications such as voltage optimisation, 1- and 3-phase metering, power factor analysis and demand alarms.

With power and sensor monitoring in one device, the performance of plant, equipment, machinery and systems (PEMS) can be seen like never before.

Analysing performance can uncover profound opportunities to save by maximising efficiency and also reliability with Condition-Based Maintenance.

Chillers
- Pressure
- Temperature
- Temperature
- Temperature
- Flow

Motors
- Current
- Bearing Vibration
- Temperature

Boilers
- Return Temperature
- Supply Temperature and Pressure
- Condensate Temperature
- CO/CO$_2$
- Residual Oxygen
- Gas/Oil Flow
- Blowdown Valve Opening

Pumps
- Flow
- Current
- In-Flow Pressure
- Bearing Vibration
- Temperature

c2iwireless.com