WEMS
Workplace Efficiency Monitoring Solutions

Workplace Efficiency Monitoring Solutions

"Inotec have 30 years experience in selecting the best of innovative technology products, bringing them together, to form the most cost effective data transfer solutions for our clients"

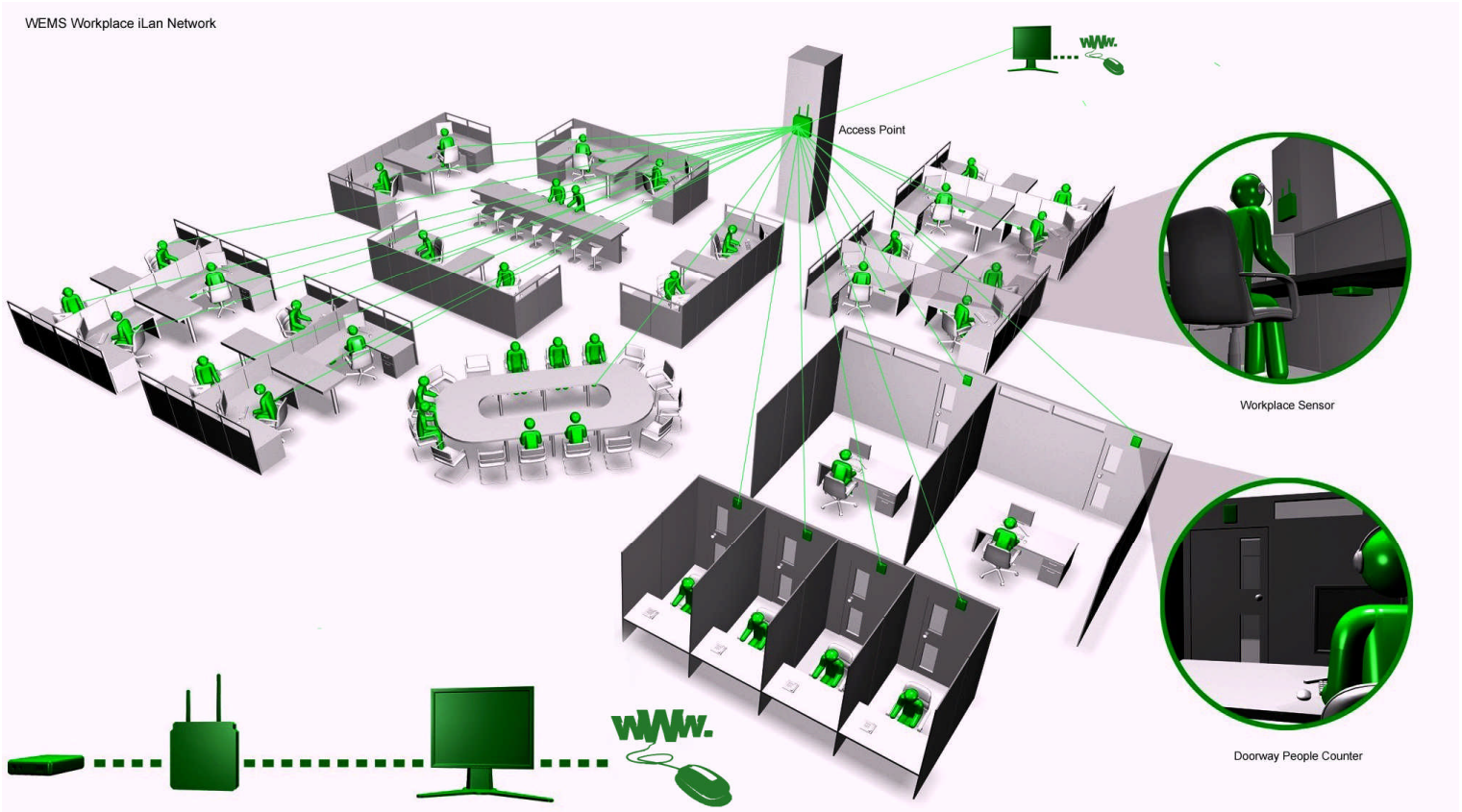
WEMS innovative technology will provide game changing solutions for the Global Work Place environment.

THE PRODUCT

The products provide battery powered occupancy sensors for workplace, desk, and phone booths to enable our clients to make informed decisions regarding their building efficiency and processes.

THE TECHNOLOGY

The core of our innovative technology, providing a low power network (iLan) via batteries, using innovative, low power microprocessor unit, providing 315, 433, 868 or 915Mhz communications, 868Mhz being the frequency most utilised for European and Middle East communications. 915 for USA.



TECHNICAL DATA – WDCV 3.0

	Specification		Value
Environmental	Office Temperature 20-25°		0°C to 40°C
	Relative Humidity		5% to 95% (non-condensing)
Power Requirements	Supply Voltage		3xAAA 4.8V to 2.5V
	Operating Current (Per Transmit)		125mA
	Operating Current (Per Receive)		125mA
	Sleep Current		<10uA
Dimensions	Width		80mm
	Height		18mm
	Length		80mm
	Weight (without ext. Batteries)		64 grams
RF Operation	Operating Frequency Band		315,433,868,915Mhz & 2.4 GHz
	Antenna		Internal Antenna
RF Performance	Indoor/Urban Range (line-of-sight)		50 meters to 100 meters
	Outdoor RF line-of-sight Range		100 meters
	Transmit Power Output		6dBm
	RF Data Rate		250kbps
	Serial Interface Data Rate		1.2kbps to 500kbps
	Receiver Sensitivity (868Mhz)		107dBm to 129dBm
Networking and Security	Supported Network Topologies		iLan proprietary
	Number of Channels (868Mhz)		16 Channels + Time Slot Allocation
Certifications	Europe (CE)		ETSI
	USA (FCC)		FCC ID: 2ABOOWDCOCC

SOFTWARE SCREENSHOTS

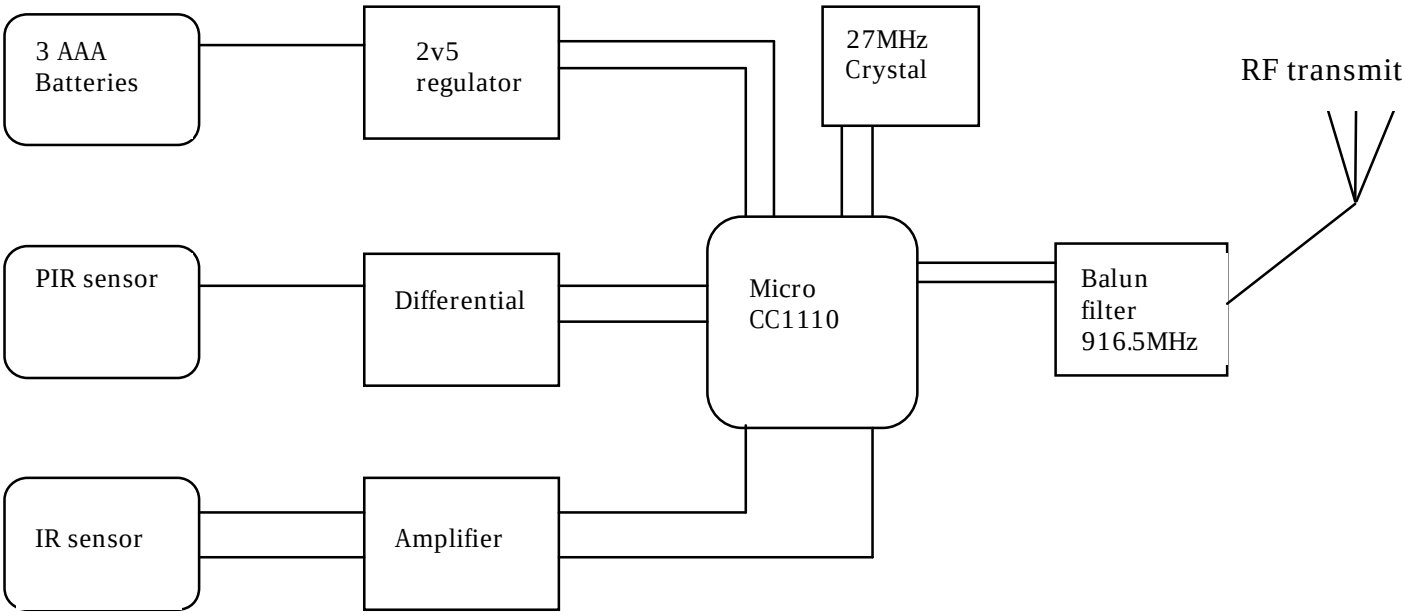
Date: 6th January 2014

Reference: FCC ID Certification application 2ABOOWDCOCC
IC ID: 11611A-WDCOCC

Attending: FCC Registration number 0023041247

Inotec product WDCOCC

Inotec WDCOCC Block Diagram



Operation;

1. Please utilise the CC1110 technical description of operation manual from Texas Instruments
2. 3 off AAA batteries supply 4v9 max to 2v5
3. PIR is amplified and differential applied
4. Micro processor senses PIR signal
5. IR is amplified and shows body temperature
6. IP compensation is amplified and shows ambient
7. Battery is checked for voltage >2v5
8. Micro processor combines signals and transmits state