



# Intech INSTRUMENTS LTD

April 2009

**Coming soon!!**

New Wireless ZIGBEE Technology empowers Intech MicroScan



9th April, 1965

Arguably the finest flanker of his generation, Michael Niko Jones aka 'The Iceman' is born in Auckland.



14th April, 1970

"Okay Houston we've had a problem...": Chaos ensues at the Mission Control Centre as Apollo 13 is crippled by a critical explosion.



April 30th, 1975

David Soul & Paul Michael Glaser star as ABC launch the first of 94 episodes over 4 years of 'Starsky & Hutch'.

## What is Zigbee?

ZigBee is a specification for a suite of high level communication protocols using small, low-power digital radios based on the IEEE 802.15.4-2006 standard.

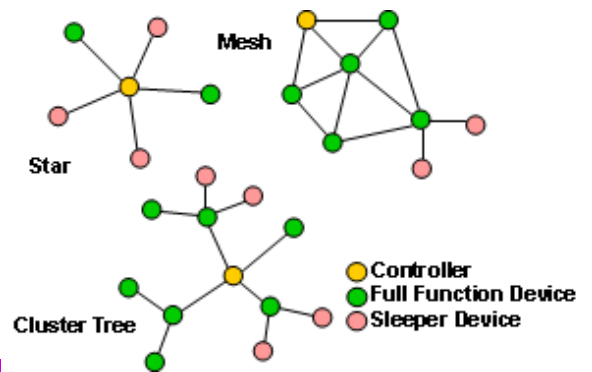
ZigBee is targeted at radio-frequency (RF) applications that require a low data rate, long battery life, and secure networking.

ZigBee nodes can be used to tie an entire factory or plant together for safety, security and control. Up to 254 nodes are allowed.

## Who needs Zigbee?

If you are looking for wireless monitoring and remote control solutions, ZigBee may be the answer.

One ZigBee network can contain more than 65,000 nodes (active devices). The network they form in cooperation with each other may take the shape of a star, a cluster tree or a net (mesh):

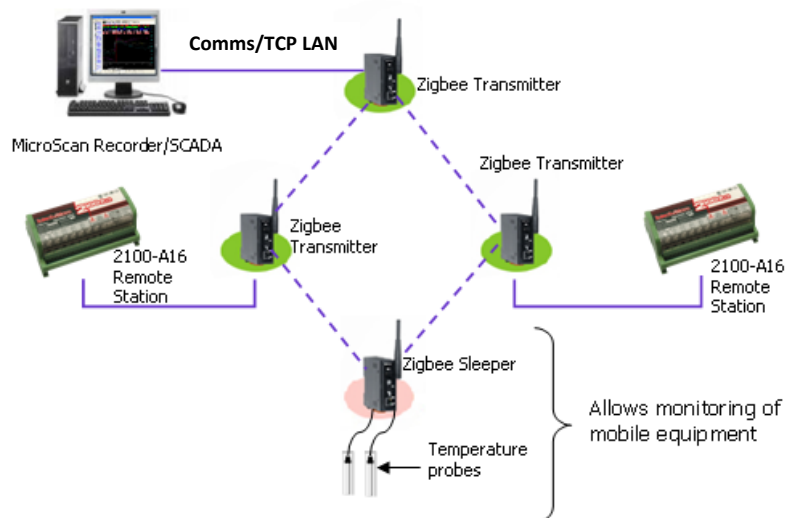


## Mesh Networking

Unlike Bluetooth or wireless USB devices, ZigBee has the ability to form a 'daisy chain' mesh network between nodes. This technique allows the short range of an individual node to be expanded and multiplied, covering a much larger area.

- When mesh network discovers a new node, it will automatically incorporate it into the current network.
- If a node malfunctions, the mesh network will route the data through an alternate path using another node.

*Example showing MicroScan Software and the 2100-A16 Remote Stations plus Zigbee sleeper for mobile monitoring*



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### New Low Cost Temperature Controllers

**Brainchild** have released some very well priced PID temperature controllers for the more budget conscious user. Equipped with a process display and either 4-20mA, Relay or Solid State Relay (SSR) outputs. The C21 & C91 units below offer a genuine cost effective option.



**Inexpensive:** Brainchild **C21** (24x48mm) & **C91** (48x48mm) units offer a genuine price alternative to more complex PID controllers.

### JUMO DP10 Differential Pressure

Differential Pressure can be an expensive measurement but JUMO have developed the DP10 to save the day. An uncomplicated device the DP10 provides a 4-20mA output to send the process signal to control devices or monitoring systems. Available in a variety of fixed ranges. Of course if you really do need the bells & whistles, the dTRANS P02 Delta with HART® protocol communications, Explosion protection & scalable outputs is your beast.



JUMO DP10 (left)  
&  
JUMO dTRANS p02 Delta  
(right)



JUMO Pressure Units: Quality When It Matters