

The ZB117 Intelligent Wireless Beacon Stack has been developed in partnership with D. G. Controls Ltd, to provide programmable intelligence and wireless mesh networking for their range of 24V DC beacon stacks. The standard termination module is replaced with IDC's ZB100 OEM module which provides a dedicated processor, memory, digital I/O and IEEE 802.15.4 wireless transceiver. The ZB117 removes the need for conventional hardwired control signals to individual lamps and enables multiple Beacon Stacks to operate independently, within a network. For integration with a PLC or PC the Beacon Stacks communicate via a ZB104 Ethernet Gateway over Modbus TCP. Standard and customised software is available for a range of solutions.

Features

- Each Stack provides up to 6 wireless operated beacons or 5 monitored only beacons
- Can be independent or paired to other devices without the need for a PLC or PC
- Programmable with Over The Air (OTA) programming
- Beacons can act as routers to expand the wireless network
- 256 selectable node addresses using internal DIL switch
- Single Network selection switch – 1 of 2 networks/channels
- Supports IEEE 802.15.4 networks
- PLC or PC connectivity over Modbus -TCP
- Lamp flash patterns defined at PLC/PC all lamp stacks in a network are synchronised
- Lamp failure detection over the wireless network
- Integrates and interacts with ZB product range



Specification

Beacon Stack	Max 6 Lamps per stack with 7 colours available Red, Yellow, Amber, Green, Blue, Purple & Clear (The top lamp may be replaced with a sounder)
Lamp Types	Standard 10W Filament, LED Other filament wattages less than 10W may be used
Supply Voltage, Current	24V DC, 2.55A (max – with six 10W lamps ON)
Processor	Industry standard 8051 MCU, 32 MHz, 8 bit Processor
Memory	8kB SRAM, 128kB Flash
Addressing	9 DIL switch provides 2 wireless networks each with 256 node addresses
Wireless communications	IEEE802.15.4/ZigBee, 2.410- 2.485 GHz, 250kbts/sec
Wireless Receiver Sensitivity	- 94 dBm, typically 50m distance in free space between beacons
Environmental	-20°C - +55°C
IEC Protection Class & Enclosure	IP65, UV stabilised polycarbonate
Overall Dimensions per module	Base height 73mm, Lamp Module height 69mm, Cap 20mm Overall diameter 88mm Lens diameter 78mm

Compatible with ZB product family of wireless modules and handheld devices from IDC. Complementary poles, bases and wall mounting brackets available

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