

LocaTOR Beacon Technical Data Sheet

The Ethernet enabled RFID LocaTOR beacons form the Location network within the indoor spaces. Each LocaTOR beacon detect tags within a specified area – the “Read Zone” – and the read-zone of each Beacon is configurable to between 5 and 100 metres radius.

The LocaTOR beacons are installed with wire-free location communications. The power supplies to the LocaTOR Beacons may be hard-wired or wire-free (battery powered). Either option can be supplied and offers similar performance levels.

Electrical Power

- A 3 x AA batteries with 1500mAh nominal specified capacity;
- Average current consumption in use typically 76 μ A;
- Current consumption not in use is typically less than 1 μ A



Transceiver RF Specifications - 868MHz, 867.90MHz, 915.15MHz

- Operating Frequency 868.95 MHz (wireless exempt band); #
 - Transmission Range up to 100 metres;
 - Integral loop antenna matched to a narrow band SAW filter;
 - Transmit Range, typically 30m line of sight
 - Low ageing frequency reference, <1ppm per annum;
 - Modulation, Manchester coded FSK at +/- 38.4kHz deviation;
 - Manchester data rate 20.945kbps;
 - LocaTOR Beacon transmits at 1.5 seconds intervals (configurable);
 - RF output typically -26 dBm (26 micro watts) e.i.r.p.
 - Spurious radiation below 1GHz less than 4nW
 - Spurious radiation above 1GHz less than 1 μ W;
 - 16 bit CRC for extremely highly data integrity;
 - Receiver operates on a continuous duty cycle;
 - Conforms to ETSI EN300-220-2.1.1.
- #alternative frequencies available

LocaTOR Beacon operation

Beacon transceiver configurable to receive transmissions from personnel tags within 1 – 20 metres (“the read zone”). The Beacon transmits its own ID and all the tag IDs within the read zone.

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