The repeater is a Hanwell radio telemetry transmitter, designed for use with the Radiolog environmental monitoring system. The units are in IP65- rated cases, suitable for use in tough environments and are powered by an external 12 DC supply.

The repeater is used for transparently forwarding radio data between Hanwell's range of radio sensors and receivers. Applications for the repeater include extending transmitter range, frequency shifting, reception/transmission to and from shielded areas and repeaters with internal receivers and external transmitters can be used to make jumps between buildings.

The repeater can be supplied with either an internal or external receiver and transmitter set at a user requested frequency.

Frequency options:
- 434.075MHz fixed frequency
- 433.920MHz fixed frequency
- 457.600MHz fixed frequency
- Synth frequencies in 25kHz steps

Receiver/transmitter options:
- Internal receiver
- External receiver
- Internal transmitter
- External transmitter

Any combination of these is permissible, giving greater flexibility for different applications.

No more than 4 repeaters should be used within range of each other. More than 4 repeaters can be used in a large system, provided they are not in range of one another.

The repeater has been designed to comply with the RoHS and WEEE EU directives, and carries the CE mark.

Radio
Fixed frequency modules 434.075 MHz (EU), 433.920 MHz (EU)
Synthesised modules 433.875 to 434.650 MHz (EU) in 25 KHz increments, 458.650MHz (US)
Radio Power: 10 mW
Radio Range: 3 km over open ground

Repeater

Product Code
REP01P4-434.075: Repeater with 434.075 MHz receiver and transmitter module. Complete with UK power supply and wall mounting bracket.
REP01P4-433.920: Repeater with 433.920 MHz receiver and transmitter module. Complete with UK power supply and wall mounting bracket.
REP01P5-434.075: Repeater with 434.075 MHz receiver and transmitter module. Complete with EU power supply and wall mounting bracket.
REP01P5-433.920: Repeater with 433.920 MHz receiver and transmitter module. Complete with EU power supply and wall mounting bracket.
REP02P4: Repeater with 433.920 MHZ receiver and 434.075 MHz transmitter. Complete with UK power supply and wall mounting bracket.
REP02P5: Repeater with 433.920 MHZ receiver and 434.075 MHz transmitter. Complete with EU power supply and wall mounting bracket.
REP03P4: Repeater with 434.075 MHZ receiver and 433.920 MHz transmitter. Complete with UK power supply and wall mounting bracket.
REP03P5: Repeater with 434.075 MHZ receiver and 433.920 MHz transmitter. Complete with EU power supply and wall mounting bracket.
REP05P4: Repeater with 434.075 MHz receiver no transmitter. Complete with UK power supply and wall mounting bracket.
REP05P5: Repeater with 434.075 MHz receiver no transmitter. Complete with EU power supply and wall mounting bracket.
REP06P4: Repeater with 433.920 MHz receiver no transmitter. Complete with UKpower supply and wall mounting bracket.
REP06P5: Repeater with 434.920 MHz receiver no transmitter. Complete with UK power supply and wall mounting bracket.
RT-434.075: Remote transmitter on 434.075
RT-433.920: Remote transmitter on 433.920

Series *Digital Repeater*

Typical Applications
° Boosting signal strength over a further distance

Instrument
Dimensions: 197 x 106 x 60 mm
Weight: 300g
Case Material: ABS
Power Supply: External 12v D/C
Op. Hum Range: 0...95% RH, non-condensing
Op. Temp Range: -20°C to +60°C
Power Consumption: 0.6 Watts

Other Information
Reaction Time at Receiver Unit: < 5 seconds

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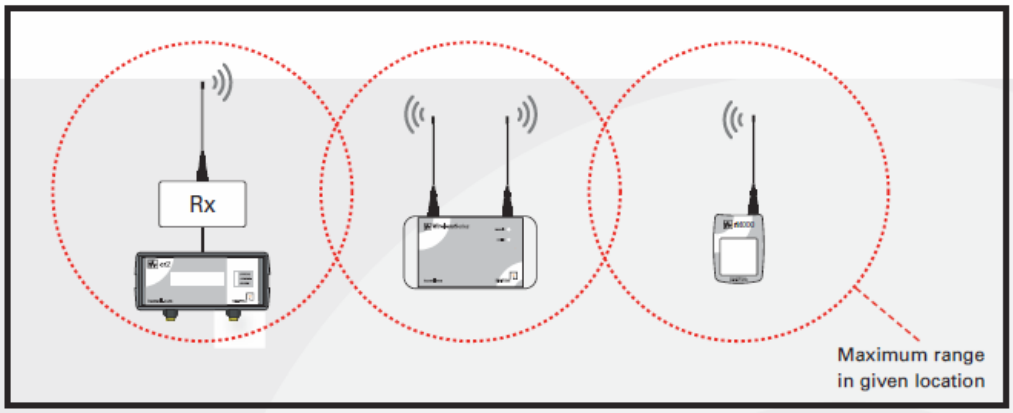
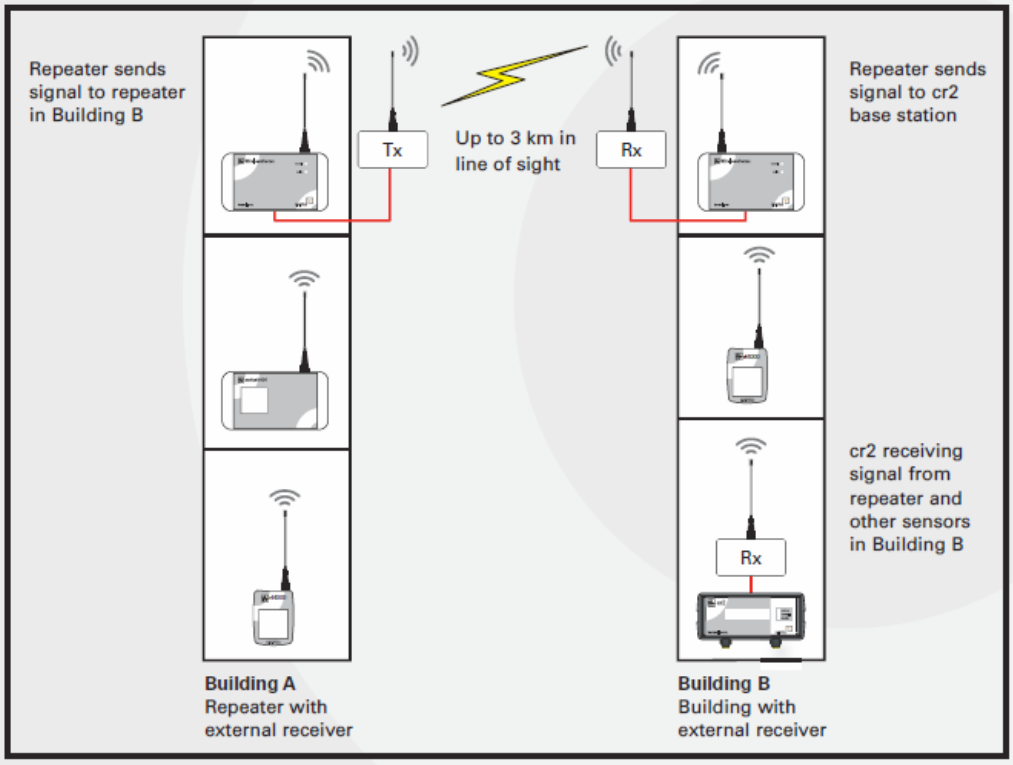
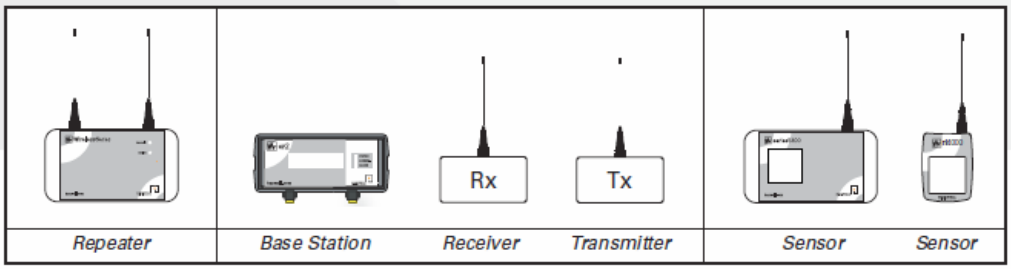
Typical Repeater Uses







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