

EkkoHub ES-EH-02 Wireless Data Receiver

With EkkoHub, EkkoSense has disrupted the traditional cost model for data centre thermal management.

EkkoHubs are designed for easy install and are housed in a compact enclosure with a variety of mounting options. The EkkoHub wireless data receiver can receive measurement data from up to 500 wireless EkkoSensors at greater than 20m distance. This data is then forwarded to the cloud based EkkoSoft® visualisation and analysis software over the WAN.

EkkoHubs are powered from a standard IEEE802.3af Power Over Ethernet interface, with local power being an option. Four LEDs on the front panel provide real time status information. EkkoHub's radio interface is encrypted with 128 bit AES. Connectivity to the cloud is provided by VPN to an external router or, where complete separation from the client network is required, an external 3G modem can be used.

The EkkoHub is compatible with all members of the Critical Things® sensor family; temperature only (ES-TSI-02 and ES-TSX-02) and temperature with humidity measurement (ES-THI-02 and ES-THX-02) wireless temperature and humidity sensor with display (ES-THD-02).

The EkkoHub is available for operation in Europe (CE marked) and USA (FCC ID 2AP4G-FS-EH-02).

Operating temperature range	0°C to 50°C
Weight	0.3kg
RF data link	RF data link GFSK 250kbit/s 868.3MHz (CE) or 915MHz (FCC)
Operating distance (from EkkoSensors)	>20m
Dimensions	160mm x 90mm x 50mm (W x H x D)
Enclosure	Acrylonitrile styrene acrylate + polycarbonate (ASA+PC blend) UL94 V0 rated.
Mounting method	Four concealed mounting holes in enclosure
Regulatory approvals	CE marked: Radio Equipment Directive (RED) 2014/53/EU Low Voltage Directive (LVD) 2014/35/EU Radio - EN 300 220 EMC - EN 61326-1 with reference to EN 301 489 Safety - EN 60950 FCC: CFR47 Part 15 EMC and Radio
Power supply	Primary - IEEE802.3af Power Over Ethernet Secondary option - 12V 1A maximum

