EkkoHub

Wireless Data Receiver

The EkkoHub 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® Critical visualization and analysis software over the WAN.

About EkkoHub

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® Critical visualization 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. Multiple EkkoHubs connect to an on-site EkkoLink device that provides local data aggregation and storage and handles secure connectivity with EkkoSoft.

The EkkoHub is compatible with all members of the Critical Things® sensor family; temperature and humidity sensors (THX, TDX) and wireless EkkoAirs. The EkkoHub can receive data at 868.3MHz (ES-EH-02) and 923MHz (FS-EH-02).

Contact us at
+1.888.982.7800 | info@upsite.com

Critical Things®
INTEGRATED SENSOR TECHNOLOGY

Our ultra-low cost 'Critical Things®' sensors are compact and unobtrusive, and can be deployed in large numbers, ensuring that high spatial resolution is available, down to rack-level where required. This allows the air temperature and humidity at each asset of interest to be accurately monitored, and wirelessly transmitted to enable themeasurement of values at predefined intervals.

Parameter	Specification
Operating Temperature range	0°C to 50°C (32°F to 122°F)
Weight	0.3kg (0.7lb)
Dimensions	160mm x 90mm x 50mm (6.3" x 3.5" x 2")
Operating range (from EkkoSensors)	>20m (21yds)
RF data link	GFSK 250kbit/s at 868.3MHz (ES versions) or 923MHz (FS versions)
Enclosure material	Acrylonitrile styrene acrylate + polycarbonate (ASA+PC blend) UL94 V0 rated
Mounting method	Four concealed mounting holes in enclosure
Power supply	Primary - IEEE802. 3af Power Over Ethernet Secondary option - 12V 1A maximum
Regulatory approvals (ES version)	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
Regulatory approvals (FS version)	FCC rules CFR 47 Part 15.107 and 15.109 Class A FCC rules CFR 47 Part 15.247