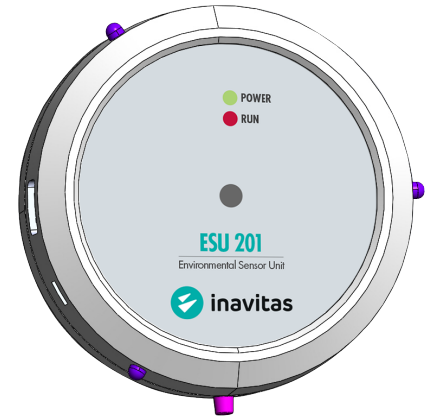


# ESU 201

## Environmental Sensor Unit



## Device Description

ESU 201 is an advanced environmental sensor which is also equipped with Infra Red (IR) controller for split-type Air Conditioners. Thanks to its flexible design, ESU 201 has a learning mode which enables the device to be used with almost all split-type ACs. In addition, it has low power bluetooth communication protocol, therefore it can be controlled via any device that has bluetooth technology.

### Device Specifications

Nominal Supply Voltage	USB or 5V <sub>DC</sub> Power Jack or AAA Size battery
CPU	ARM Cortex-M4 32 Bit 64 Mhz
Flash	512 kB
RAM	64 kB
Watchdog Timer	System Reset / 5 sec
Power Consumption	0.04W 5V <sub>DC</sub>
Internal Temperature Sensor	Temperature Range: -20 to 120 °C
Internal Humidity Sensor	Humidity Range: 0 to 100% RH
Infrared Transmitter Output Power	160mW
Internal Carbon Dioxide Sensor	0-5000 ppm %3 Accuracy
Infrared Transmitter Output Wavelength	940nm
Infrared Transmitter Carrier Frequency	38kHz
Infrared Receiver Input Frequency	38kHz

### Bluetooth Specifications

Bluetooth Protocols	BLE v5.0
Frequency Range	2.4 GHz
RF Certification	SRRC, FCC, CE (RED), IC, NCC, KCC, TELEC (MIC)
Bluetooth MESH Support	Yes

### Environment Conditions

Standards	IEC 61326-1, EN 301489-1, IEC 61010-1, EN 60950-1
Operating Temperature	-25°C / +70°C
Storage Temperature	-40°C / +70°C
Operating Humidity	25% - 95% RH
Protection Class	IP20

### Mechanical Specifications

Device Dimensions (W x H x D)	115mm x 83mm x 32 mm
Weight	100gr

