

# Wibeee

## Consumption analyzer



### Description

**Wibeee** is a unit that monitors and gathers electrical data with the purpose of achieving the responsible and efficient control of energy consumption. It is easily installed and fixed with a “clip”, based on the DINZERO patented system. This system can be used for easy installation of the unit on the top and bottom of an MCB (Miniature Circuit Breaker). After installation, it will start converting the measured parameters into information that will be sent via a Wi-Fi wireless connection.

### Applications

**Wibeee** can be installed on any single or three-phase supply point of the installation (consumption < 63 A), helping you detect any conflicting point in which energy is not being efficiently used. Its ease of use and installation makes it an excellent choice for controlling the consumption in the residential, tertiary or small and medium-scale industry sectors.

### Technical features

<b>Power circuit</b>	Connection type	Single or three-phase
	Voltage range	M / T: 85...265 V <sub>a.c.</sub> 3P: 95...440 V <sub>RMS p-p</sub>
	Frequency	50 - 60 Hz
<b>Measurement circuit</b>	Consumption	M / T: 1,5 ~ 4,5 VA / 3P: 2,8 ~ 4 VA
	Rated voltage	M / T: 85...265 V <sub>p-n</sub> 3P: 95...440 V <sub>RMS p-p</sub>
	Nominal current	63 A (16 mm <sup>2</sup> )
<b>Accuracy class</b>	Voltage	2%
	Current	2%
<b>Communications</b>	Type	Wi-Fi ( <b>IEEE 802.11</b> )
	Protocol	HTTP, Modbus/TCP, XML
	Frequency range	2,405 ... 2,480 GHz
	Encryption	AES128
	Certification	<b>FCC (USA), IC (CANADA), ETSI (EUROPE)</b>
	ISM Band	2.400 ... 2.484 GHz
	Modulation	DSSS/OFDM
	Channels	1 to 11
	Application throughput	4500 kbps
	Typical sensitivity	- 95 dBm @ 1Mbps
	Typical 802.11b TX power with control	18 dBm
	Typical 802.11g TX power with control	16 dBm
	Integrated low phase noise	VCO, RF frequency synthesizer, PLL loop filter and PA
RSSI ADC and I/Q DACs	Integrated RSSI ADC and I/Q DACs, RSSI readings available to host	
<b>Build features</b>	Enclosure material	Self-extinguishing <b>UNE 21031</b> 90 °C
	Weight	S-ph: 18 g / T-ph: 64 g / 3P: 52,9 g
	Protection degree	IP 40
<b>Environmental conditions</b>	Operating temperature	-10...+45 °C
	Humidity (non-condensing)	5 ... 95% (non-condensing)
	Maximum altitude	2,000 m
<b>Safety</b>	<b>IEC 61010-1:2001</b> Double-insulated electric shock protection class II	
<b>Standards</b>	<b>UNE-EN 61010-2-030:2011, UNE-EN 61326-1:2006, EN 301 489-17 V2.2.1</b>	

### References

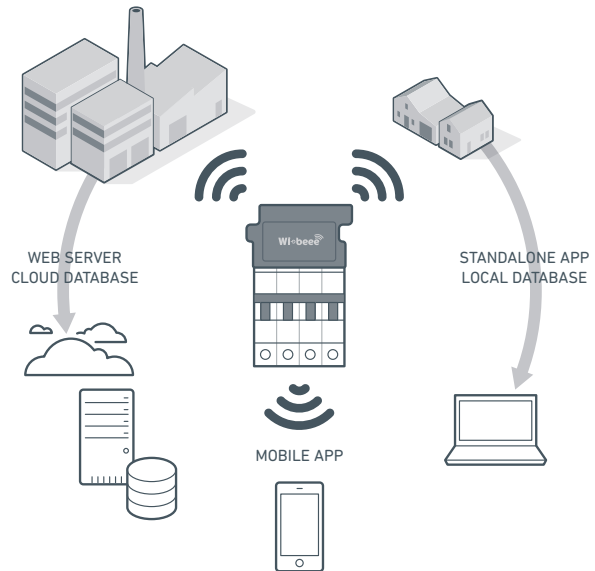
Type	Configuration	Code	Connection
<b>Wibeee-T-L</b>	N + LIII	<b>M57020</b>	Three-phase
<b>Wibeee-T-R</b>	LIII + N	<b>M57021</b>	Three-phase
<b>Wibeee-M-L</b>	N + L	<b>M57010</b>	Single-phase
<b>Wibeee-M-R</b>	L + N	<b>M57011</b>	Single-phase
<b>Wibeee-3P</b>	LIII	<b>M57022</b>	Three-phase

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### Features of the solution

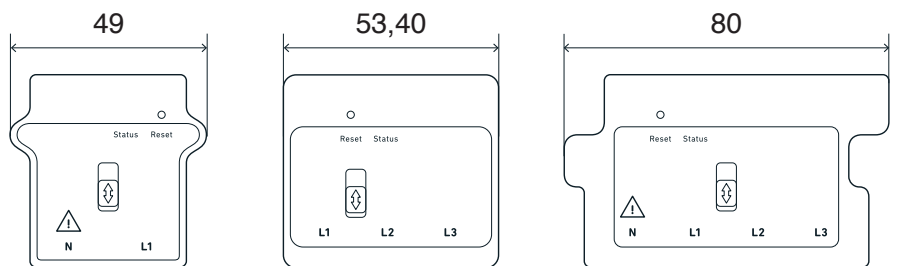
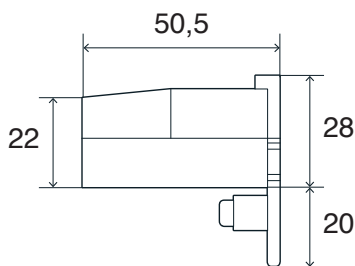
The solution features the following elements: Single or three-phase **Wibeee** measuring sensor with Wi-Fi wireless communications, WibeeeAPP for Smartphones (Configuration, display of electrical parameters in real time, analysis of historical data and alerts), web platform (Configuration of the user profile, display, prediction and analysis of data).



### Dimensions

#### Single-phase

#### Three-phase



### Installation method

