



Zi-Gate is a device that acts as a cable extender in a wireless manner. It uses the 169MHz band to transmit data to a distance that ZigBee networks can't cover. It collects data from ZigBee nodes in a close distance and transmits them to the Gateway that acts as a concentrator.

Network Architectures / Protocols	<ul style="list-style-type: none"> ZigBee Mesh, HA 1.2 169 MHz low bit rate – long range connectivity
Frequency bands	<ul style="list-style-type: none"> 2.4 GHz 169 MHz (6 channels)
Supported Network Roles	<ul style="list-style-type: none"> Zigbee Coordinator w-Mbus Bridge w-Mbus BaseStation
Minimum Data communication interval	1 minute
Security mechanism	AES encryption 128 bits

Zi-Gate

Coverage of large office buildings or manufacturing plants using a full mesh network often becomes an extremely demanding task. In most of these cases, the sensors installed are concentrated in small areas where usually wireless communication is challenged by various obstacles or even distance. In such cases the Sub-GHz band and especially the 169 MHz ISM band proves to be a useful tool to resolve connectivity issues in a wireless manner and avoid high installation costs. The 6 w-Mbus mode N channels allow more flexibility on the channel selection. The low bit rate bandwidth and the regulatory directives that do not allow channel utilization >10% in this band are also covered by Meazon Zi-Gate.

Power supply options	<ul style="list-style-type: none"> 12V DC 230V AC, 50Hz
Power Loss response	Automatic resumption of operation after power loss
Man-Machine interface	<ul style="list-style-type: none"> 4 Indication LEDs User Button
Coverage	<p>Up to 30m indoor, 2.4GHz Zigbee Mesh topology</p> <p>Up to 2Km outdoor-Line of Sight, 169 MHz w-Mbus Star topology</p>
Dimensions (WxHxD) in mm	89 x 89 x 30 (Without external antennas)
Operating Environment	<p>Indoor rated</p> <p>Temperature: -20°C to 50°C</p> <p>Relative Humidity: 10% to 90% (RH), non-condensing</p>