ASTRELGROUP

ZigBee
Energy Solutions

Wireless devices for energy monitoring

temperature sensors / thermostats /
energy meters / switches / pulse
counters / gateways / accessories

for Home & Building Automation

AG
ASTRELGROUP

ZigBee Modbus Line

Modbus Gateway		
Product	**Code**	**Description**
	ZC-GWP485-EM	Zigbee Gateway - RS485 Modbus high power amplified; power supply: 12/24V, external power supply 230/24V included
	ZC-GWP485-EMUK	Zigbee Gateway - RS485 Modbus high power amplified; power supply: 12/24V, UK external plug power supply 230/24V
	ZC-GWP485D-EM	Zigbee Gateway - RS485 Modbus high power amplified for DIN rail; power supply 230Vac
	ZC-GWPUSB-EM	Zigbee Gateway – USB Modbus high power amplified; power supply via USB
	ZC-GW-ETH-EM	ZigBee Gateway - Ethernet (TCP ModBus); power supply 12/24V, external power supply 230/24V included
	ZC-GW-ETHEMUK	ZigBee Gateway - Ethernet (TCP ModBus); power supply: 12/24V, UK external plug power supply 230/24V included

Modbus ZigBee wireless Energy Meter		
Product	**Code**	**Description**
	ZR-HM.D-M	ZigBee Energy Meter up to 15kW; device for DIN rail, split core current transformer max 70A included
	ZR-HM3-50-EM	ZigBee Energy Meter for 1 three-phase line or 3 single-phase lines. 3 split core Current Transformers included max 50A for each phase
	ZR-HM3-100-EM	ZigBee Energy Meter for 1 three-phase line or 3 single-phase lines. 3 Split core current transformers included max 100A for each phase
	ZR-HM3-200-EM	ZigBee Energy Meter for 1 three-phase line or 3 single-phase lines. 3 Split core current transformers included max 200A for each phase
	ZR-HM6-50-EM	Energy Meter ZigBee for 2 three-phase lines or 6 single-phase lines. 6 Split core current transformers included max 50A for each phase
	ZR-HM6-100-EM	Energy Meter ZigBee for 2 three-phase lines or 6 single-phase lines. 6 Split core current transformers included max 100A for each phase
	ZR-HM6-200-EM	Energy Meter ZigBee for 2 three-phase lines or 6 single-phase lines. 6 Split core current transformers included max 200A for each phase

Energy Meter wired Modbus

Product	Code	Description
	HM3-50	Wired Modbus Energy Meter for 1 three-phase line or 3 single-phase lines. 3 Split core current transformers included, max 50A for each phase – RS485 interface and pulse output
	HM3-100	Wired Modbus Energy Meter for 1 three-phase line or 3 single-phase lines. 3 Split core current transformers included, max 100A for each phase – RS485 interface and pulse output
	HM3-200	Wired Modbus Energy Meter for 1 three-phase line or 3 single-phase lines. 3 Split core current transformers included, max 200A for each phase – RS485 interface and pulse output
	HM6-50	Wired Modbus Energy Meter for 2 three-phase lines or 6 single-phase lines. 6 Split core current transformers included, max 50A for each phase – RS485 interface and pulse output
	HM6-100	Wired Modbus Energy Meter for 2 three-phase lines or 6 single-phase lines. 6 Split core current transformers included, max 100A for each phase – RS485 interface and pulse output
	HM6-200	Wired Modbus Energy Meter for 2 three-phase lines or 6 single-phase lines. 6 Split core current transformers included, max 200A for each phase – RS485 interface and pulse output

ZigBee Modbus wireless sensors, switches and pulse counters

Product	Code	Description
	ZED-THI-M	Temperature and humidity sensor battery-powered; plastic holder for indoor use
	ZED-THL-M	Temperature, humidity and lighting sensor battery-powered; plastic holder IP55
	ZED-TIDCI-M	Pulse counter with 2 digit inputs, 2 NTC inputs, battery-powered
	ZR-BDCG-ZB-EM	ZigBee digital pulse counter on DIN rail with universal optical reader / S0 input, power supply 230Vac
	ZED-TID-M	ZigBee module with 2 digital inputs, 2 NTC inputs, battery-powered
	ZR-TID-EM	ZigBee module with 2 digital inputs, 2 NTC inputs, power supply 24Vdc; power supplier 230Vac/24Vdc included
	ZR-TID-EM-UK	ZigBee module with 2 digit inputs, 2 NTC inputs, power supply 24Vdc; power supplier with UK plug 230Vac/24Vdc included

ZigBee Modbus wireless sensors, switches and pulse counters		
Product	Code	Description
	ZR-CI-ZB-EM	Pulse counter with 2 digital counters (compatible with S0), 2 NTC inputs, power supply 24Vdc; power supplier 230Vac/24Vdc included
	ZED-CO2-M	ZigBee CO_2 sensor battery-powered
	ZR-ES-EM	ZigBee module with input for ES standard meters, 2 digital input pulse counters and 2 digital inputs for dry contacts, power supply 24Vdc; power supplier 230Vac/24Vdc included
	ZR-TIR2-EM	ZigBee module with 2 digital inputs, 2 relays, 1 NTC input, power supply 24Vdc; power supplier 230Vac/24Vdc included
	ZR-TIR2-EM-UK	ZigBee module with 2 digital inputs, 2 relays, 1 NTC input, power supply 24Vdc; power supplier with UK plug 230Vac/24Vdc included
	ZR-PLUG-EU-M	Pass-through wireless plug remotely controlled by an energy meter; for power levels up to 13A @ 230Vac; EU plug (Schuko)
	ZR-PLUG-FR-M	Pass-through wireless plug remotely controlled by an energy meter; for power levels up to 13A @ 230Vac; French plug
	ZR-PLUG-IT-M	Pass-through wireless plug remotely controlled by an energy meter; for power levels up to 13A @ 230Vac; Italian plug
	ZR-PLUG-UK-M	Pass-through wireless plug remotely controlled by an energy meter; for power levels up to 13A @ 230Vac; UK plug
	ZR-SWITCH-M	Wall-mounted wireless switch for up to 13A @ 230Vac resistive load

Modbus ZigBee accessories

Product	Code	Description
	ZR-B-P485-EM	ZigBee Bridge - RS485 Modbus RTU high power; power supply: 12/24V, external power supplier 320/24Vdc included
	Z-HANDZER-M	Portable device for ZigBee Modbus grid analysis
	ZR-REP-E230M	ZigBee Modbus repeater with power amplifier 10mW; power supply 230Vac
	ZR-REP-EM	ZigBee Modbus repeater with power amplifier 10mW; power supply 12/24Vac/dc, power supply 230Vac/24Vdc included

ZigBee Home Automation Line

ZigBee Home Automation wireless sensors, switches and energy meters		
Product	**Code**	**Description**
	ZED-CO2-HA	ZigBee Home Automation CO_2 sensor; battery-powered
	ZED-THI-HA	ZigBee Home Automation temperature and humidity sensor; battery-powered
	ZED-THL-HA	ZigBee Home Automation temperature, humidity and lighting sensor; battery-powered
	ZED-TTR2-HA	ZigBee Home Automation touch thermostat battery-powered with bult-in dry contact relay
	ZR-HM.D-HA	ZigBee Home Automation Energy Meter; DIN rail mounting; split core current transformer 70A max included
	ZR-HM.W-HA	ZigBee Home Automation Energy Meter; wall-mounted device; split core current transformer 70A included
	ZR-HM3-50-HA	ZigBee Home Automation Energy Meter for 1 three-phase line or 3 single-phase lines. 3 Split core current transformers included max 50A for each phase
	ZR-HM3-100-HA	ZigBee Home Automation Energy Meter for 1 three-phase line or 3 single-phase lines. 3 Split core current transformers included max 100A for each phase
	ZR-HM6-50-HA	ZigBee Home Automation Energy Meter for 2 three-phase lines or 6 single-phase lines. 6 Split core current transformers included max 50A for each phase
	ZR-HM6-100-HA	ZigBee Home Automation Energy Meter for 2 three-phase lines or 6 single-phase lines. 6 Split core current transformers included max 100A for each phase
	ZR-PLUG-EU-HA	Pass-through wireless plug remotely controlled by an energy meter; for power levels up to 13A @ 230Vac; EU plug (Schuko)
	ZR-PLUG-FR-HA	Pass-through wireless plug remotely controlled by an energy meter; for power levels up to 13A @ 230Vac; French plug
	ZR-PLUG-IT-HA	Pass-through wireless plug remotely controlled by an energy meter; for power levels up to 13A @ 230Vac; Italian plug
	ZR-PLUG-UK-HA	Pass-through wireless plug remotely controlled by an energy meter; for power levels up to 13A @230Vac; UK plug

ZigBee Home Automation wireless sensors, switches and energy meters		
Product	**Code**	**Description**
	ZR-RELAY-HA	ZigBee Home Automation wall-mounted dry contact relay; power supply 230Vac; max power 13A @ 230V
	ZR-SWITCH-HA	ZigBee Home automation wall-mounted wireless switch for up to 13A @ 230Vac resistive load
	ZR-REP-230HA	ZigBee Home Automation radio repeater with power amplifier 10mW; power supply 230Vac

Accessories

Accessories		
Product	**Code**	**Description**
	ANT-EXT002	Directional antenna for outdoor use. High gain 14dBi 2.4GHz; cable L = 2 m. Protection degree IP65
	ANT-EXT007	Directional antenna for outdoor use. High gain 14dBi 2.4GHz; cable L = 7 m. Protection degree IP65
	ANT-EXT003	Omnidirectional antenna for outdoor use. High gain 9dBi 2.4GHz; L = 60 cm, with extension cable L = 2 m. Protection degree IP65
	ANT-EXT004	Omnidirectional antenna for outdoor use. High gain 9dBi 2.4GHz; L = 60 cm, with extension cable L = 7 m. Protection degree IP65
	ANT-EXT009	Omnidirectional antenna for outdoor use. High gain 6,5dBi 2.4GHz; L = 30 cm, with extension cable L = 2 m. Protection degree IP65
	ANT-EXT010	Omnidirectional antenna for outdoor use. High gain 6,5dBi 2.4GHz; L = 30 cm, with extension cable L = 7 m. Protection degree IP65
	NTC015HP00	NTC probe, cable L = 1.5 m
	NTC030HF01	NTC probe for tubing measurements, cable L = 3 m
	NTC030HP00	NTC probe, cable L = 3 m
	NTC060HP00	NTC probe, cable L = 6 m
	--	Specific Custom ZigBee OEM bridges and gateways available upon request (MOQ applies)

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