



Cellular modem for Honeywell®, Itron®, Landis+Gyr® electricity meters

Wireless communication modem that has been designed specifically for the automatized remote readout of electricity meters. The device can be ordered with various wireless module types.

You can save money by using our modem because furthermore there is no need for manual readout of the meter systems.

The modem is connectable through its RS232 and RS485 connection, it provides transparent data link to the HES, through the wireless network.

By option, the 2 digital input feature is also available, which can be used for input status monitoring and sabotage detection.

The device can be used to remotely read the meter's registers and modify the modem parameters. The readout takes place in "PULL" mode, the modem provides transparent communication between the meter and the electricity provider's HES center.

The modem can be installed under the terminal cover of the meter sealed by the service provider. The device is configurable with our WM-E Term[®] application.

MAIN FEATURES

- LTE Cat.4/3G/2G cellular modules (order options)
- It can be assembled into the meter's enclosure and fastened
- Power supply (AC) from metrology (optional DC)
 Inputs:
 - RS232 connector (D-SUB9 / D-SUB25 / RJ12 / RJ45)
 - RS485 connector (2/4-wire/ RJ12 / RJ45)
- 2 digital inputs (monitoring / sabotage detection) optional
 Compatibility:
 - Honeywell® Alpha A1500, A1700, A1800, A1140, A1160 meters
 - Itron® SL7000, EM600 (E620), ACE6000, ACE8000 meters
 - Landis+Gyr[®] ZMG type electricity meters
 - Installable to any meter as universal, external modem
- Surge protection option (from 4kV up to 12kV)
- Supercapacitor option (SMS notification of power outage)
- "Pull" mode
- IEC 62056-21 protocol, transparent data transmission
- WM-E Term® application (mass configuration, FW refresh)
- Device Manager[®] software (order options)





- UTILITY COMPANIES
- SMART METERING
- INDUSTRIAL MEASUREMENT



WM-EIS



DESIGN AND OUTFIT

- The modem is installable inside the meter enclosure
- RS232 connector options (D-SUB9 / D-SUB25 / RJ12 / RJ45)
- RS485 connector options (2- or 4 wire / RJ12 / RJ45)
- 2 digital input option (input status / sabotage detection)
- AC power from the meter (optional DC power)

COMPATIBILITY

- Honeywell® Alpha A1500, A1700, A1800, A1140, A1160 meters
- Itron[®] SL7000, EM600 (E620), ACE6000, ACE8000 meters
- Landis+Gyr[®] ZMG electricity meters
- Installable to any meter as universal, external modem

OPERATION

- "Pull" mode
- IEC 62056-21 protocol, transparent data transmission
- Immediate alarm notification (from power outage, input status changes)

ACCESSORIES

- · RJ45 cable, converter (for meter connection)
- External SMA or FME antenna (50 Ohm) order option
- WM-E Term[®] software (mass fw updates, configuration)
- You can manage the device by Device Manager® software

WM-EIS® Power Voltage / Nominal Frequency		LTE Cat.4 ->100-230V AC +15%/-15%, 50-60Hz +/- 5% (AC power supplied by the meter) / Optional DC power (order option) can be connected: Input Voltage: 828V DC		
				ower Consumption / Current
Communication module	Cellular technology	• LTE Cat.4 / 3G / 2G	• LTE Cat.4 / 3G / 2G	
	Internet module	SIMCom A7602A	SIMCom A7608SA-H	
	Bands / Frequency (MHz)	LTE-FDD: B1(2100) / B3(1800) / B5(850) / B7(2600) / B8(900) / B20(800) .LTE-TDD: B38(2600) / B40(2300) / B41(2500) UMTS / HPSA+: 3C: B1(2100) / B2(1900) / B5(850) / B8(900) .GSM/GPRS/EDGE: B5(800) / B8(900) / B3(1800) / B2(1900)	LTE-FDD: B1[2100] / B2[900) / B3[1800] / B4(1700) / B5(850) / B7(2600) / B8(900) / B20(800 B28(700) / B66(1700) - LTE-TDD: B38(2600) / B40(2300) / B41(2500) - UTE-TDD: B38(2600) / B4(900) / B5(850) / B8(900) - GSM/CPRS/EDCE: B5(800) / B8(900) / B3(1800) / B2(1900)	
	Speed (DL/UL)	LTE Cat4 release 9 compilant: 150/50 Mbps H5PA+ Cat20/Cat6: 42/57 Mbps UMTS: 384/384 kbps EDCE: 236/236 kbps CPRS: 856/856 kbps	LTE Cat.4 release 9 compilant: 150/50 Mbps HSPA+ Cat.20/Cat.6: 42/5.7 Mbps UMTS: 384/384 kbps EDCE: 236/236 kbps CPRS: 85.6/856 kbps	
	SIM card slot	- mini SIM card (2FF type, push-insert SIM)		
	Antenna connector	- External antenna connector (SMA, 50 Ohm)		
ompatibility	Meter type	Honeywell / Elster [®] Alpha AI500 / AI800 / AI700 and AI140 / AI160 electricity meters Itron [®] SL7000, EM600 (E620), ACE6000, ACE8000 meters Landis+Gyr [®] ZMG electricity meters Landis+Gyr [®] ZMG electricity meters External usage as universal modem for any compatible meter		
iterfaces	Connectors (order options)	- R5232 (D-SUB9 / D-SUB25 / R312 / R345 connector options) · R5485 (2-wire/4-wire connector or R312 / R345 connector options) - 2 digital input connector (for monitoring, sabotage detection) - Power supplied by meter (AC power, pigtail connector or ferrule connector / 2-pins) - optional DC power input (order option)		
Operation	Protocol / Transmitting	• EN 62056-21, Mode C - 300-115200 baud serial data speed • "Pull" mode, transparent transmission		
	Notification	- Immediate alarm notification (LastGASP - power loss) - Notification of input status changes / sabotage detection		
	Configuration	• WM-E Term [®] tool (local/remote single or mass parameter configuration, firmware update) • DMSet [®] software - optional (remote config, parametring) • Device Manager software (order option)		
	Indication	· 3 status LEDs		
	RTC Backup Battery*	• Power outage <=1 hour • After 1 hour the RTC will be supplied from the meter		
	Supercapacitor	- Supercapacitor (for Last GASP SMS notification from power outages) - order option		
MC compatibility	Surge withstand	• 4kV (peak), 1,2/50µs, line to line 20 • 6kV (peak), 1,2/50µs, line to earth (ground) 20 • 12kV, Rsource = 400 (1,2/50µs, Impulse 1 min) • Delectric test: 4kV, 1 min, 50Hz		
Construction	Temperature	Operating: from -40°C to +70°C at 95% rel.humidity Storage: from -40°C to +80°C at 95% rel.humidity		
	Enclosure	· IPS1 plastic transparent casing, mountable into the meter enclosure		
	Dimension / Weight	- 162 x 66 x 30mm (without antenna and cables) - 98-130gr (according to expansion board and cable outfit)		

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