

COMMUNICATION MODULE AM122

AM122 is a mobile network (2G, 3G, 4G) communication module design to be used with AS3000 and AS3500 electricity meters.

The AM122 communication module has LTE CAT1 (4G) capabilities ideal for remote reading of the electricity meters.

AM122 has a specific design and can only be used together with AS3000 and AS3500 electronic meters, manufactured by Honeywell.

The communication module provides reliable two-way communication between the meter and the Head End System (HES) based on LTE CAT1 (4G).



AM122 front view

FEATURES AND BENEFITS

- LTE CAT1 (4G).
- Auto-fallback on non-availability of any LTE network to:
 - GPRS or UMTS (choose before ordering);
 - GPRS and UMTS (optional);
- 6 LEDs:
 - Cellular network/connection status;
 - SIM card status;
 - Meter connection status;
 - Optional;
 - Optional;
 - Firmware status;
- Sealable front cover.
- Specially designed module housing that fits perfectly into the E-meter assembly.
- Firmware is kept in a restricted area of the flash memory.
- Power supplied by the E-meter: 230 V AC.
- Configurable by Head End System (HES) via IEC1107 or DLMS (optional).
- Security suite 0 supporting High-Level Security (HLS) (optional).
- Event logging with timestamp.
- Remote firmware update.
- Push alarms.
- Enables time synchronization of the meter clock.
- DLMS certification (optional).

AM122 TECHNICAL SPECIFICATIONS

Electrical characteristics	Nominal voltage (U_n)	100 ... 230 V AC, $\pm 15\%$
	Nominal frequency	50 Hz $\pm 5\%$
	Power consumption	2,9 W
	Current consumption in standby	24 mA/100 V AC 12 mA/230 V AC
	Average current consumption	30 mA/100 V AC 15 mA/230 V AC
Communication chip		Telit LE910
Working frequencies	LTE	800 (B20)
	UMTS (fallback)	1800 (B3), 2600 (B7)
	GSM/GPRS (fallback)	850, 900, 2100, 900, 1800
SIM card		Mini SIM
EMC compatibility	Surge withstand (1,2/50 μ s)	4 kV (peak), line to line 2 Ω 6 kV (peak), line to ground 2 Ω
	Rated isolation voltage	12 kV, $R_{source} = 40 \Omega$ (1 minute impulse)
Mechanical characteristics	Weight	< 0,35 kg for use with AS3000 / AS3500
	Protection class	IP21
	Housing material	Polycarbonate, flame-retardant, self-extinguishing and recyclable
Environmental characteristics	Operating temperature range	-25 °C ... +70 °C
	Transport and storage temperature range	-40 °C ... +80 °C
	Relative humidity	Up to 95% non-condensing
Compliance with European directives		<ul style="list-style-type: none"> • European Radio Equipment Directive (RED) • CE • European Restriction of Hazardous Substance (RoHS)

For more information

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