ELSEWEDY ELECTROMETER

DLC Modem

EM-DLC-AMx70

Residential Commercial

The AMx70 electricity meter series are modern, electronic, fully programmable devices, designed for application in AMI systems for monitoring and control of electricity consumption.

The AMx70 electricity meter series meets remote data transmission requirements and enables readouts of various measurands. The meters are compliant with IEC and DLMS/COSEM standards and have been designed to serve billing purposes.

The EM-DLC-AMX70 is a data transmission modem that works over the distribution line. It uses the PRIME protocol stack to send or receive the data.
The modem is connected to the meter as a built-in modem that could be connected as a board during the manufacturing phase.

The Data Transmission Rate is 21.4 – 128.6 Kbit/s.
The module has a coupling circuit that helps the meter to inject the signal to the grid.

The module supports the CENELEC band and FCC band.
It complies with the PRIME 1.4 specification.

PRIME ALLIANCE dlms

MODEM SPECIFICATIONS

Modem Characteristics	
Prime DLC Communication	• Power Line Carrier Modem for 50HZ mains • 97-carriers OFDM PRIME • Differential BPSK, QPSK, 8-PSK PRIME compliant modulations
Communication Protocol	• DLMS over Prime protocol stack
Power Source	• The modem is powered from the meter connector

Environmental Conditions	
Temperature Range	-5°C to +80°C
Storage Temperature	-25°C to +80°C
Humidity Range	<90%
Altitude	0-3600M
Service Life	20 Years

Communication	
Data Transmission Rate	DLC: 21.4 – 128.6 Kbit/s
Transmission output	based on Power spectral density specification (PSD) of: **EN 50065-1:2001** & **ITU-T G.9901** For one phase, the power amplifier injecting a final signal level of 120dBµVrms (1 Vrms). For three-phase injecting simultaneously, the final signal level shall be 114dBµVrms (0.5Vrms).

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