

DEVICE

The mains powered MBUS master LAN-WMBUS-MA-M is a Wired MBUS to Wireless MBUS converter. The device is mounted with a AC/DC adapter in combined enclosure. The device is a plug-and-play and converter to read out Wired MBUS meters and transmit the data wireless using the WMBUS protocol.

ANTENNA

The master use 2 high performance internal antennas. The internal antennas are mounted at 90 degrees from each other, thus taking advantage of both horizontal and vertical polarizations for maximum range.

FIRMWARE

MODE	T1
READ OUT INTERVAL	Refer technical document
ENCRYPTION	On request AES128 encryption OMS 5. Profile A.
MBUS DATA	Refer technical document

POWER/LIFETIME

POWER SUPPLY	230 V AC
RADIO	14 dBm (25mW) output power to antennas.
ANTENNAS	2 antennas for true differential transmission.
MAXIMUM LOADS	MA-4 16 mbus loads
	MA-8 16 mbus loads
	MA-16 16 mbus loads
	MA-64 32 mbus loads
	MA-128 32 mbus loads
	MA-500 32 mbus loads

GENERAL INFORMATION

STANDARDS	2014/53/EU (RED) EN 13757-3/4:2013, OMS 4.0.2 EN61000-6-2:2005 EN61000-6-1:2007
MATERIAL	Grey, PC
IP	67
SIZE (W x H x D)	130 x 130 x 50 mm
CONNECTOR	2 cable screw mount connectors.
INDICATION LED	TX green, RX blue. Number of found devices red.

DEVICES

LAN-WMBUS-MA-4	MBUS master 230V max 4 logical devices.
LAN-WMBUS-MA-8	MBUS master 230V max 8 logical devices.
LAN-WMBUS-MA-16	MBUS master 230V max 16 logical devices.
LAN-WMBUS-MA-64	MBUS master 230V max 64 logical devices.
LAN-WMBUS-MA-128	MBUS master 230V max 128 logical devices
LAN-WMBUS-MA-500	MBUS master 230V max 500 logical devices

USAGE

When the device is powered up the devices starts scanning the MBUS for connected meters. It search for secondary addresses on baudrate 2400 other baudrate on request.

Each time a device is found the short sound will be heard. After the scanning is completed, the device will make a short sound as number of times as number of devices have been found. The maximum number of devices supported is as standard depending on the device. It is also possible to trigger a new search by using a magnet and hold it by the reed contact. The search takes about 5 minutes or longer depending on meters on the bus. After the search have been completed, the device will ask each meter every X minutes for new data and transmitt the recieved data using the Wireless MBUS protocol using the long packet format 0x72. The device as standard encrypts the payload.

