

BrunataNet

GateLan - Mbus/RS485

(Type 2)

Installation guide

Version 1.0

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Brunata a/s is a 100% Danish owned company. We have more than 90 years of experience within developing and producing heat cost allocators, heating accounts and meter service. Our quality control system fulfils DS/EN ISO 9001 and 14001. Read more at www.brunata.com or contact us at +45 77 77 70 00.

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Contents

1.0 Introduction	3
1.1 Connection generally	3
1.2 Tools.....	3
2.0 Connection of GateLAN - Mbus/RS485.....	4
3.0 Connection of meter types HGQ, HGS, HGV and HGP-SIV	5
4.0 Connection of cable in HGP volume meter	6
5.0 Connection of cable to Siemens Sonogyr-Mbus-master WZC-P120/250	7
6.0 Registration of the installation	8
7.0 Light diodes and buttons on GateLan - Mbus/RS485	9
8.0 Technical support.....	9

Appendix: BrunataNet - component list

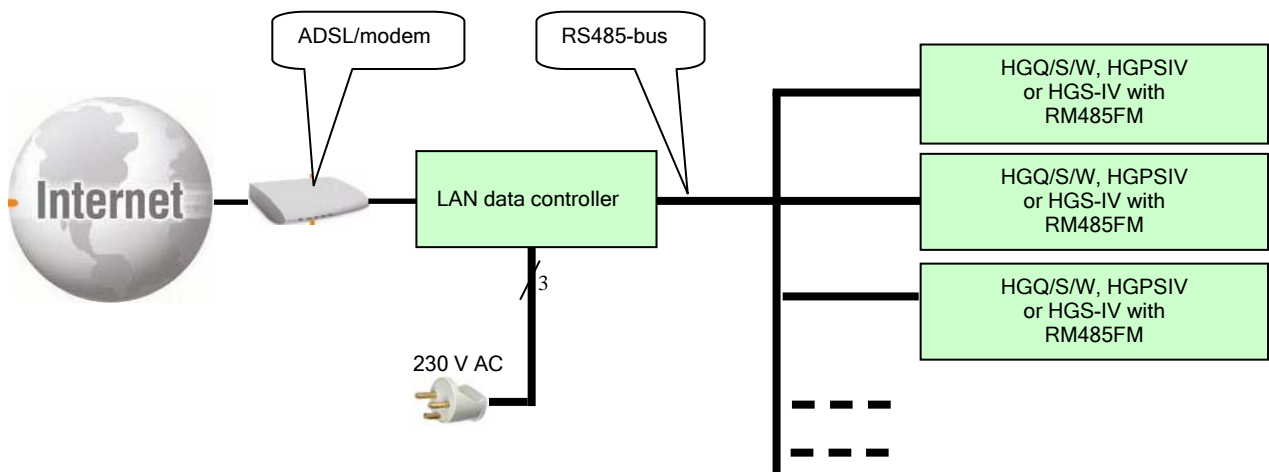
1.0 Introduction

1.1 Connection generally

GateLAN - Mbus/RS485 is connected to 230 V and an Ethernet with DHCP IP address, providing access to the internet.

Up to 20 HG meters can be connected to GateLAN - Mbus/RS485, provided the total cable length does not exceed 1000 m.

GateLAN - Mbus/RS485 is supplied with 3 m cable. Additional cable can be ordered separately under product no. 04-2020-C.



1.2 Tools

GateLAN - Mbus/RS485 is supplied with a simple plastic LSA installation tool.



If you need to install several GateLAN - Mbus/RS485, a better LSA installation tool called Krone LSA-PLUS is recommended (Brunata product no. 06-1040-C).

This is also used for installing the four-conductor cable to the RS485 bus in GateLAN.

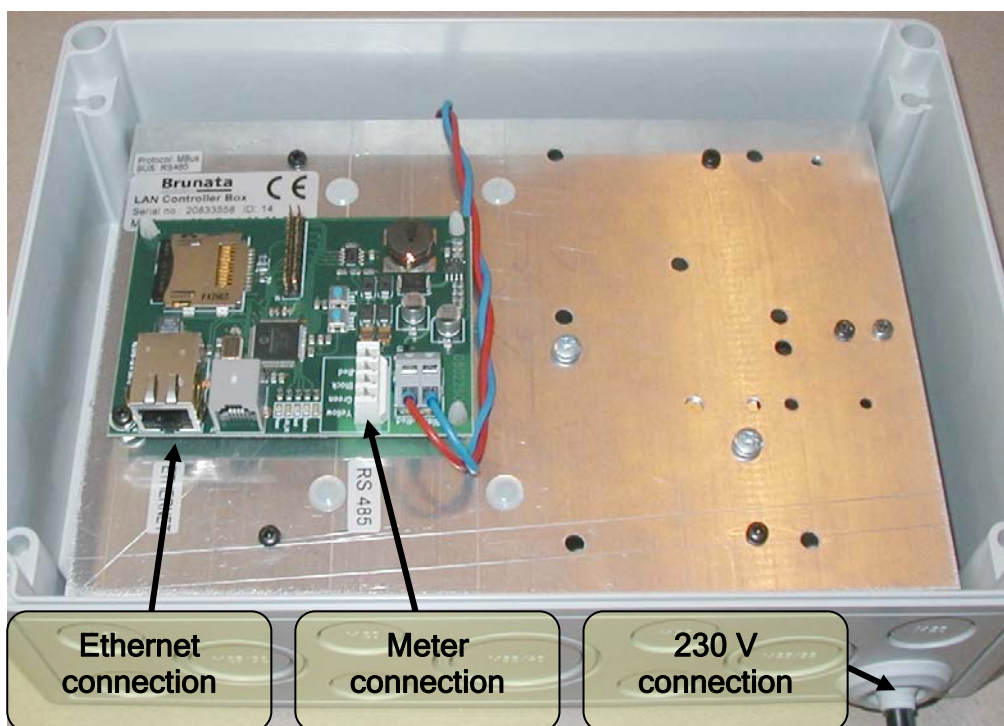


2.0 Connection of GateLAN - Mbus/RS485

Connect local network or internet to the Ethernet socket.

Connect the HG meters to the RS485 bus using a four-conductor cable.





After connection of all meters and the internet, connect GateLAN - Mbus/RS485 to 230 V.

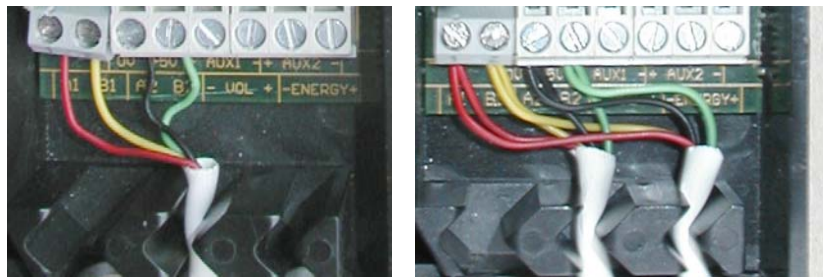


3.0 Connection of meter types HGQ, HGS, HGV and HGP-SIV

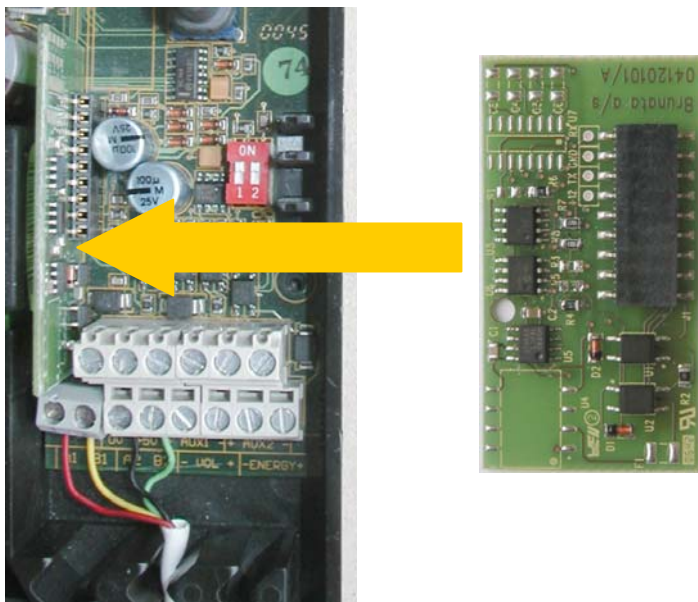
First install the four-conductor cable in the HG meter as shown in the illustration below.

If several HG meters are to be connected to GateLAN - Mbus/RS485, the cable must be looped on to the next HG meter.

Cable		Screw terminal
Green		B2
Black		A2
Yellow		B1
Red		A1







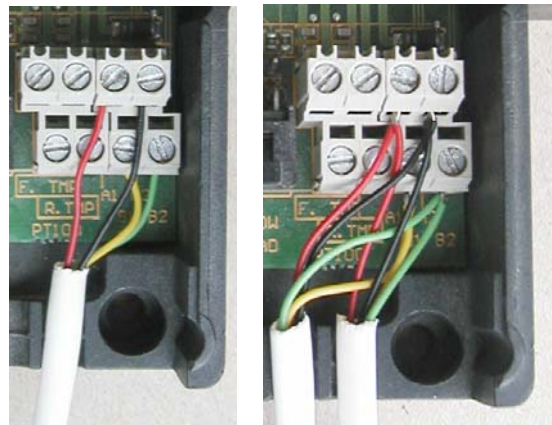
After installation of the four-conductor cable, insert the RS485 card (60-9027-B) in the HG meter as shown in the illustration below.



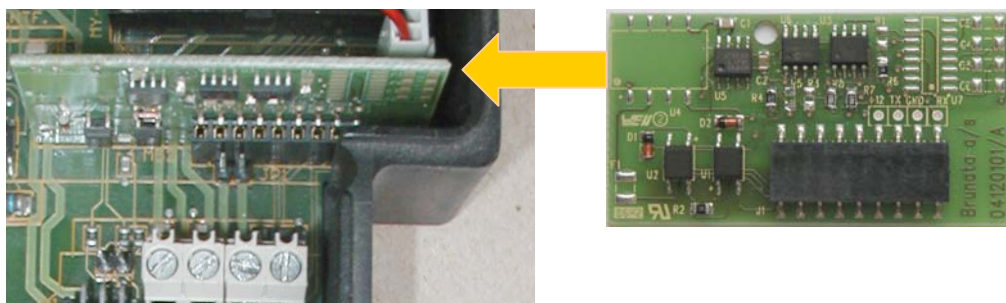
4.0 Connection of cable in HGP volume meter

First install the four-conductor cable in the HG meter as shown in the illustration below. If several HG meters are to be connected to GateLAN - Mbus/RS485, the cable must be looped on to the next HG meter.

Cable		Screw terminal
Green		B2
Black		A2
Yellow		B1
Red		A1






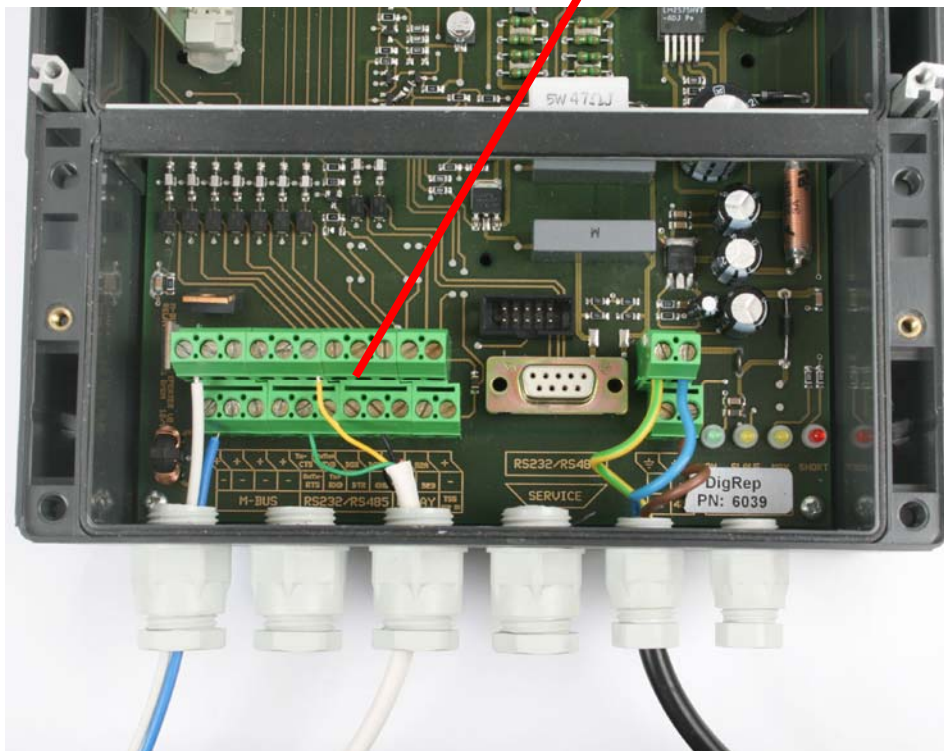
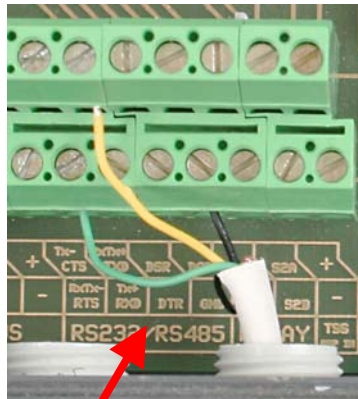
After installation of the four-conductor cable, insert the RS485 card (60-9027-B) in the HG meter as shown in the illustration below.



5.0 Connection of cable to Siemens Sonogyr-Mbus-master WZC-P120/250

In Siemens Mbus systems, GateLAN - Mbus/RS485 must be programmed for secondary address search. This can be done by the text command (net_type mbus_sec).

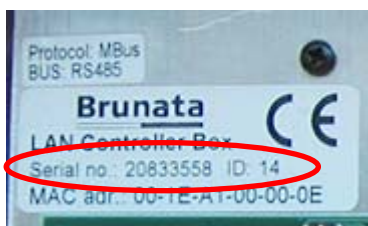
Cable		Screw terminal
Green		RxTx RTS
Black		GND
Yellow		RxTx TxD



6.0 Registration of the installation

For the system to be set-up in WebMon, the form on the last page must be completed and sent to the relevant local Brunata branch or to the heating accounts department at the main office at Brunata, Herlev.

It is important to include both the serial number and the ID number of GateLAN - Mbus/RS485 on the form:

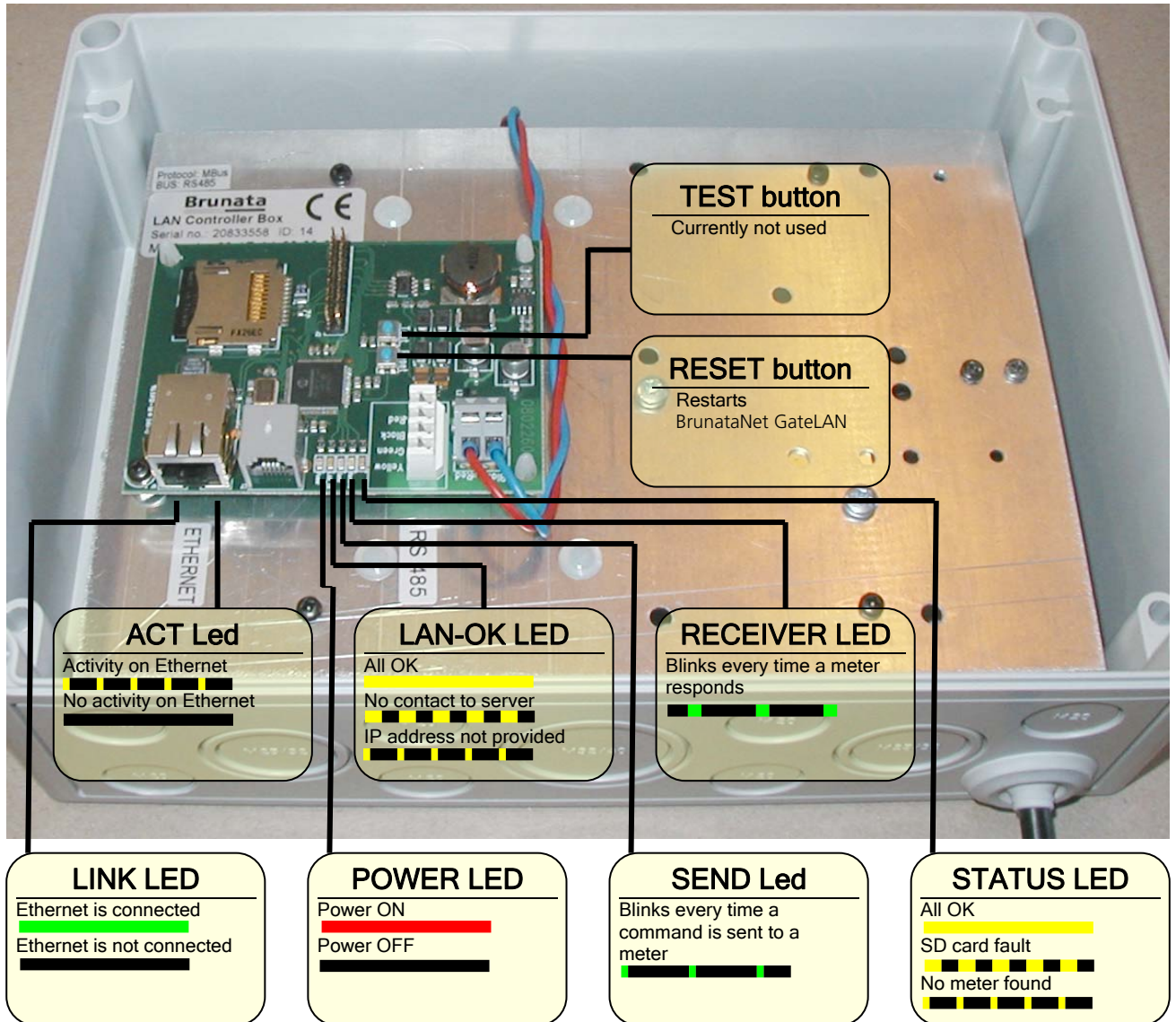


For the HG meter, only the meter number on the side of the meter need to be included:



The connection of the meters to GateLAN - Mbus/RS485 can be sketched on the back of the form.

7.0 Light diodes and buttons on GateLan - Mbus/RS485



8.0 Technical support

If you have any questions in connection with the above, please do not hesitate to contact the Technical Department at Brunata by:

Telephone +45 7777 7000
 Fax +45 7777 7001
 E-mail service@brunata.dk

