

GeoMoS Guides:

Setup of TP Meteo sensor (RS485) with GeoMoS

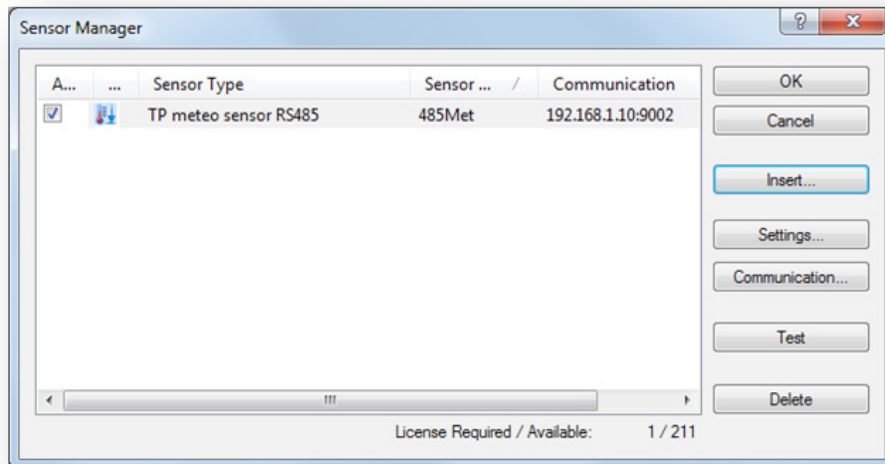
Requirements:

- TP Meteo sensor RS485
- Teltonika RUT955
- Internet connected PC with Leica GeoMoS installed
- External 12v 3A supply DC

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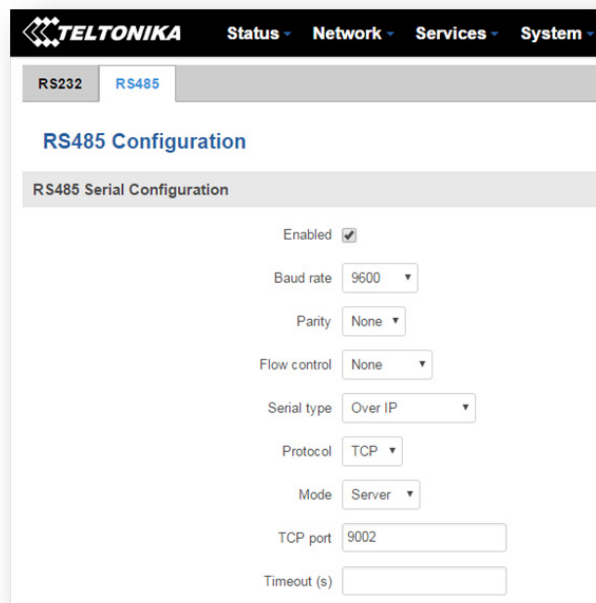
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1. Launch GeoMoS, add the sensor type and the correct IP port.



2. Configure the device this is to connect to Teltonika RUT955. Open the services menu to the RS232/485 page then the RS485 tab. Enable it and duplicate the settings from the TP sensor. By default stop bits and data bit are setup to 8 and 1.

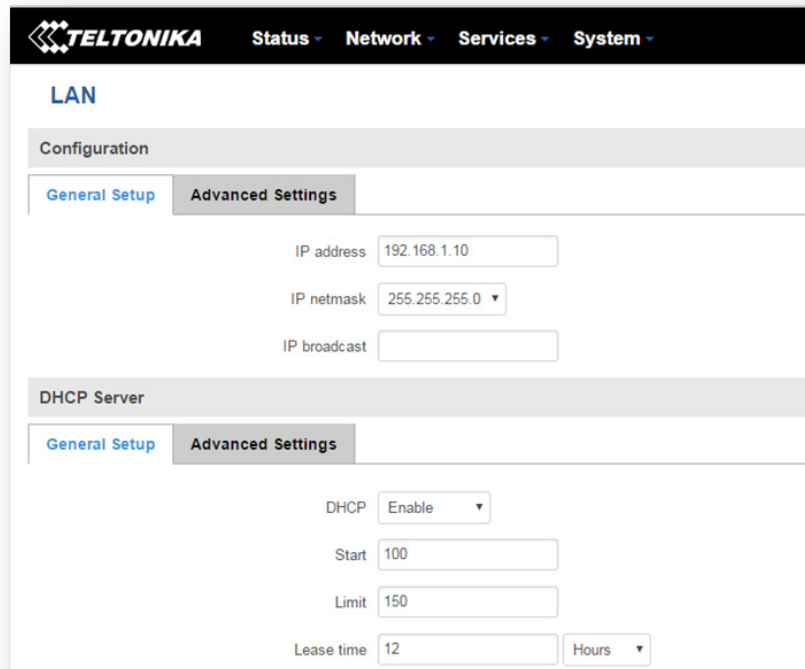
Select TCP Server and add a port number of 9002 for the RS485 interface to forward to.



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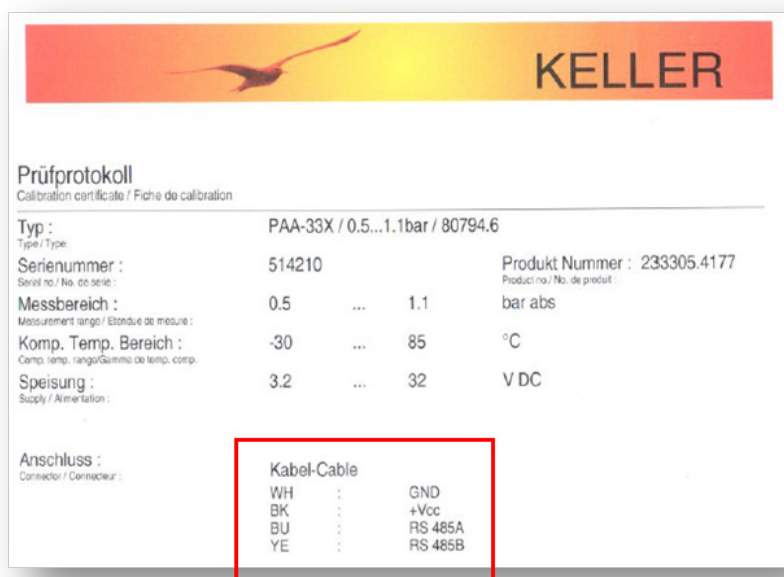
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3. Configure the Teltonika RUT955 to have a static IP address so you can always find it.



The screenshot shows the Teltonika RUT955 web interface. The top navigation bar includes 'Status', 'Network', 'Services', and 'System'. The main content area is titled 'LAN' and has two tabs: 'General Setup' and 'Advanced Settings'. Under 'Advanced Settings', there are three input fields: 'IP address' (192.168.1.10), 'IP netmask' (255.255.255.0), and 'IP broadcast'. Below this is a 'DHCP Server' section with 'General Setup' and 'Advanced Settings' tabs. Under 'Advanced Settings', there are four fields: 'DHCP' (Enable), 'Start' (100), 'Limit' (150), and 'Lease time' (12 Hours).

4. Connect the TP Meteo sensor (RS485) wires the Teltonika RS485 port looks as follows:



The screenshot shows a calibration certificate for a TP Meteo sensor. The header features the 'KELLER' logo. The title is 'Prüfprotokoll' (Calibration certificate / Fiche de calibration). The certificate lists the following details:

Typ :	PAA-33X / 0.5...1.1bar / 80794.6		
Seriennummer :	514210	Produkt Nummer :	233305.4177
Messbereich :	0.5 ... 1.1	Produktion / No. de produit :	bar abs
Komp. Temp. Bereich :	-30 ... 85		°C
Speisung :	3.2 ... 32		V DC

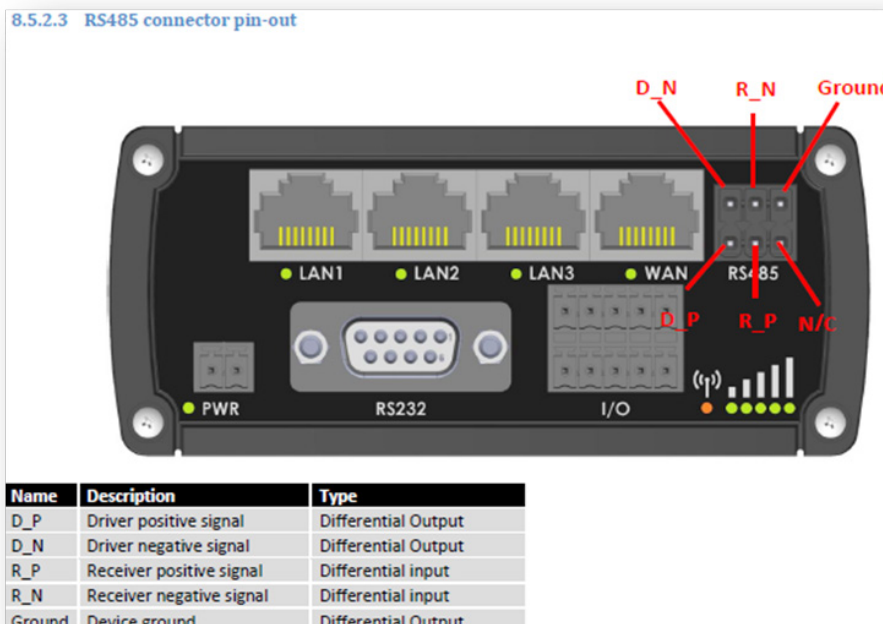
The 'Anschluss' (Connector / Connecteur) section is highlighted with a red box and lists the following connections:

WH :	GND
BK :	+Vcc
BU :	RS 485A
YE :	RS 485B

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On RUT955 loop D_N to R_N, then connect to the Data- (yellow) on the TP Meteo sensor cable

On RUT955 loop D_P to R_P, then connect to the Data+ (blue) on the TP Meteo sensor cable

Do NOT install the termination jumper inside the Teltonika

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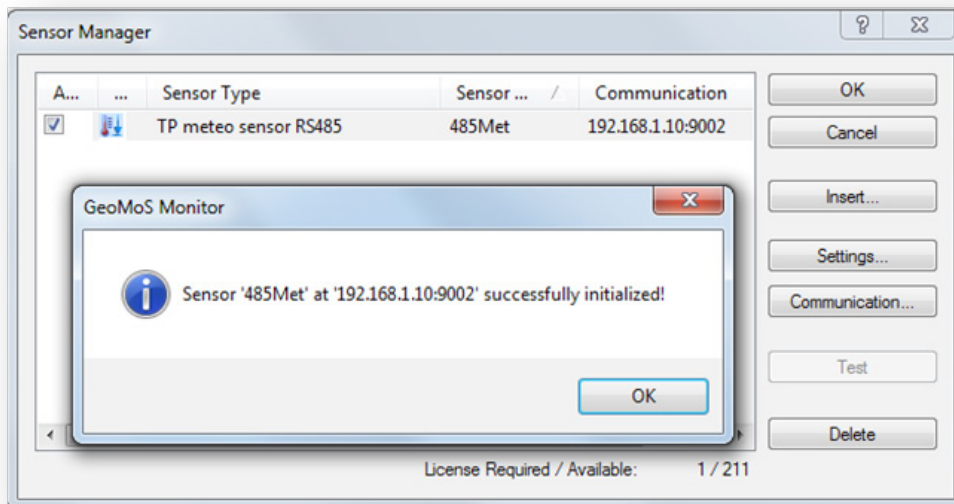
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5. Device power for the TP Meteo sensor will need to be connected externally as the RUT955 will not supply power on the RS485 line. Thus the following connections are required on the TP Meteo sensor cable.

GND (**white**) to -ve on the battery (**black**)

+Vin (**black**) to +ve on the battery (**red**)

6. Return to GeoMoS, add the sensor type with the parameters above and test the connection with the connection via the router.



7. Within GeoMoS, add the sensor to the measurement cycle editor and ensure the TPS sensors have Meteo corrections enabled.