MODBUS CONFIGURATOR BLUE'LOG XM / XC

Item no.: 557.012

Creation of blue'Log specific Modbus drivers

LICENSE DESCRIPTION

For connection of a wide range of devices meteocontrol offers the blue'Log XM / XC all-in-one driver for standardized communication interfaces. The all-in-on driver is continuously getting extended by meteocontrol. All currently supported devices can be seen via the "blue'Log XM / XC compatibility check" on meteocontrol homepage.

Next to the all-in-one driver users can create blue'Log specific Modbus driver profiles via the web front end of the data logger which do not get included in the all-in-one driver. With help of this feature, called "Modbus Configurator blue'Log XM / XC" it is possible to implement project/device specific Modbus mappings.

Created "Modbus profiles" won't get implemented in a blue'Log driver package (all-in-one driver) and are only available on the affected blue'Log.

The "Modbus configurator blue'Log XM / XC license" activates the function.

Please note the use of the feature requires basic knowledge with regard to Modbus (https://modbus.org/).

FEATURES

+ blue'Log specific Modbus driver development via blue'Log web front end
+ Possibility to create several "Modbus profiles" on a single blue'Log
+ "Modbus profiles" can get downloaded from the logger (.json)
+ Import of already existing "Modbus profiles"
+ Detailed "Configuration help" directly on the blue'Log with lot of useful information for each step of the configuration
+ Creation of "Modbus profiles" based on available blue'Log "Device categories" Inverter*, Sensor, Meter, String monitoring, Status DI external, Tracker, Battery, Genset
+ The selection of measurement values which can get implemented is based on the max. amount of values available for each "Device category" (see "import-specification" on https://meteocontrol.github.io/)

*Please note: Inverter driver profiles created with help of the "Modbus configurator" can't get used for Power Control.

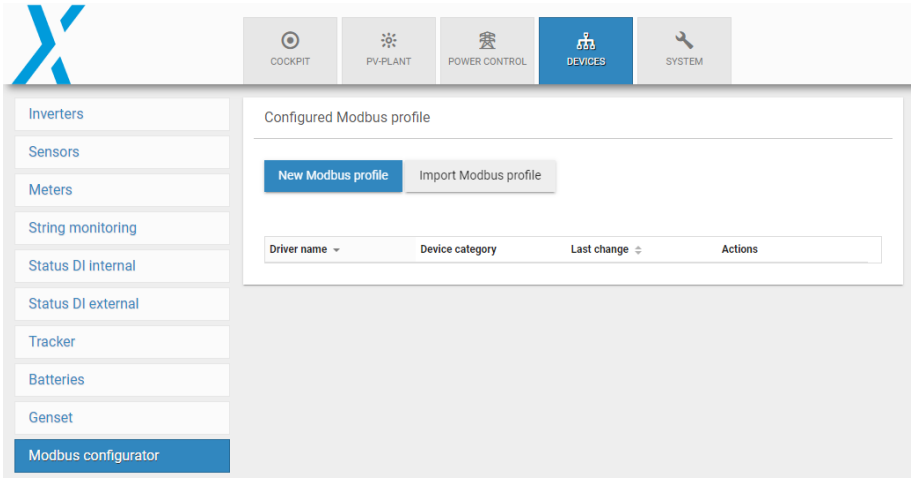
REQUIREMENTS

+ Basic knowledge regarding „MODBUS“ (https://modbus.org/)
+ blue’Log XM / XC
+ Firmware ≥ 17.0.11
+ Modbus configurator blue’Log XM / XC license*

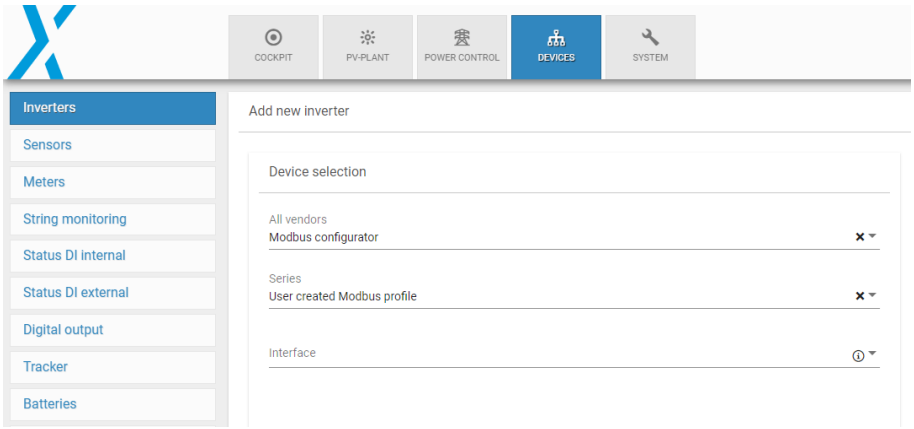
*The license is linked to a specific device. When ordering, please provide the 14-digit hardware serial number of the data logger.

CONFIGURATION

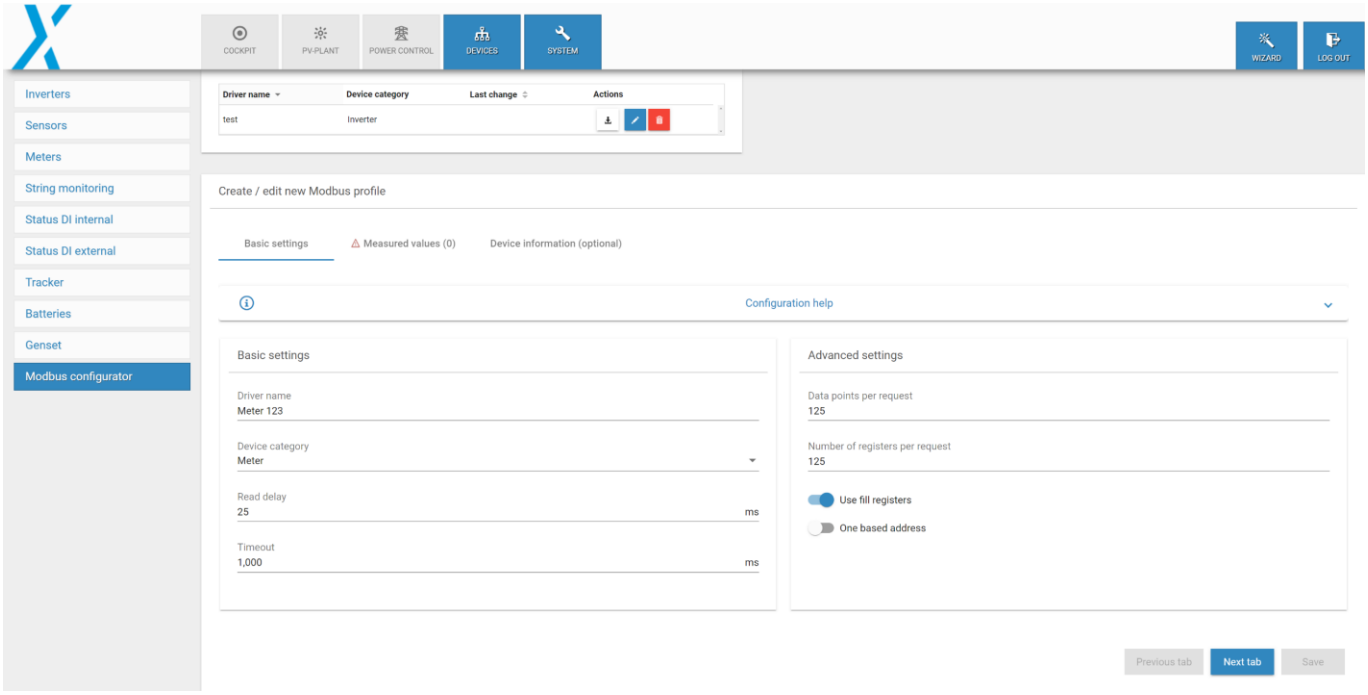
+ Configuration is done in the menu „Devices – Modbus configurator“
  - ➢ Create new Modbus profiles or import existing ones

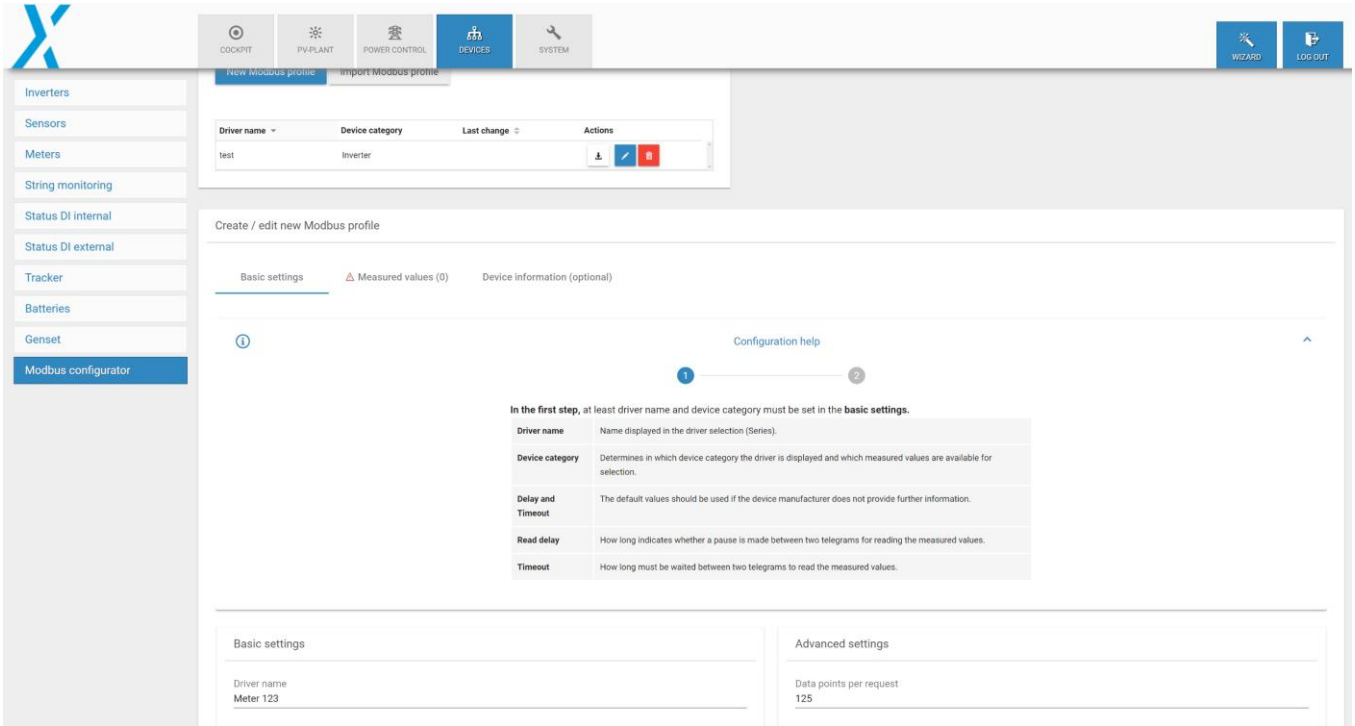


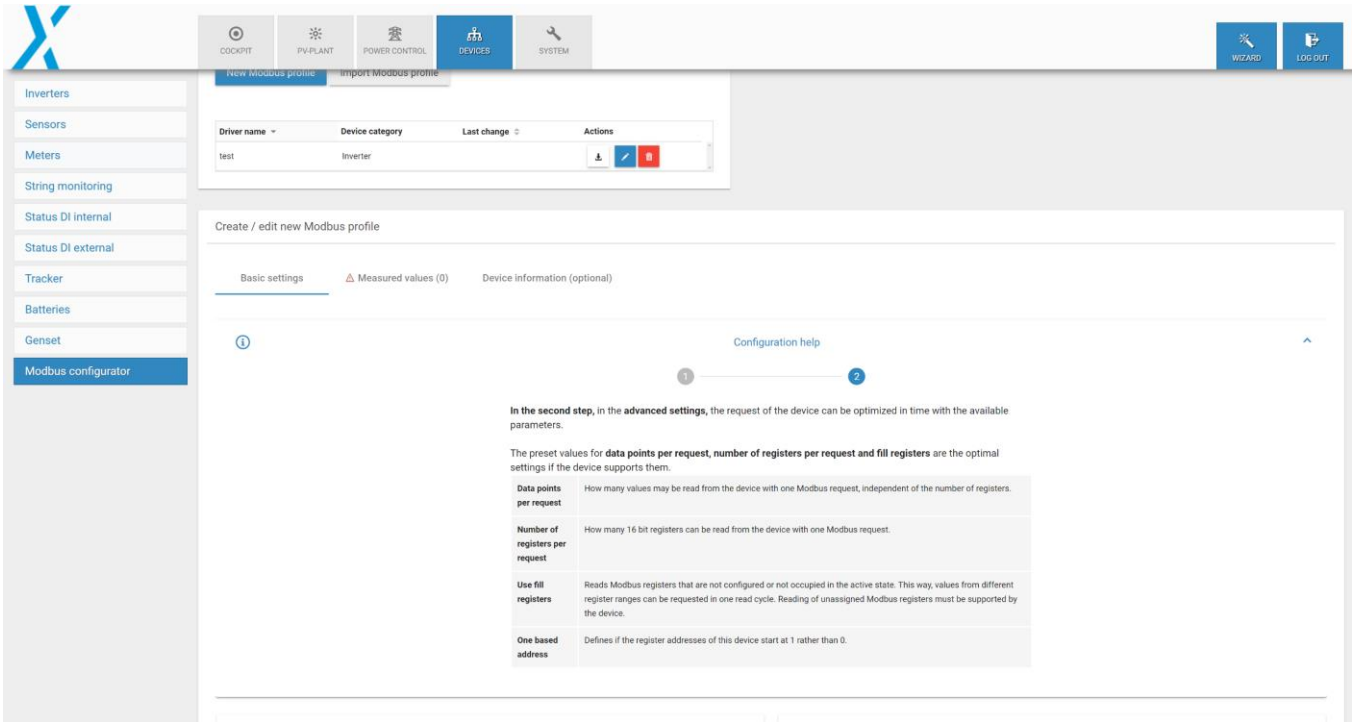
+ After successful creation of the “Modbus profile” the driver can get selected in the corresponding device category via vendor selection “Modbus configurator”

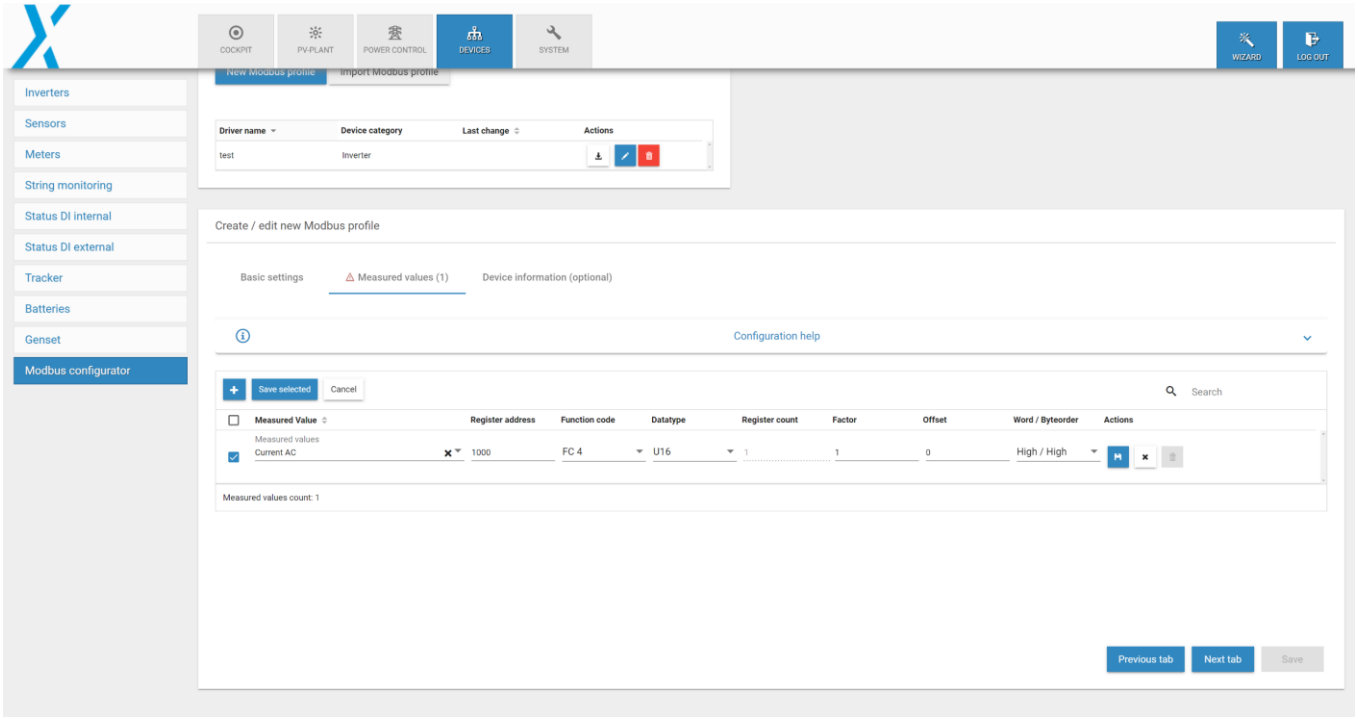


Please find below some impressions how the configuration can be done via the blue'Log XM / XC web front end.






COCKPIT
PV-PLANT
POWER CONTROL
DEVICES
SYSTEM
WIZARD
LOG OUT
Inverters
Sensors
Meters
String monitoring
Status DI internal
Status DI external
Tracker
Batteries
Genset
Modbus configurator
New Modbus profile
Import Modbus profile
Driver name
Device category
Last change
Actions
test
Inverter
Create / edit new Modbus profile
Basic settings
Measured values (0)
Device information (optional)
Configuration help
In the second step, in the advanced settings, the request of the device can be optimized in time with the available parameters.
The preset values for data points per request, number of registers per request and fill registers are the optimal settings if the device supports them.
Data points per request
How many values may be read from the device with one Modbus request, independent of the number of registers.
Number of registers per request
How many 16 bit registers can be read from the device with one Modbus request.
Use fill registers
Reads Modbus registers that are not configured or not occupied in the active state. This way, values from different register ranges can be requested in one read cycle. Reading of unassigned Modbus registers must be supported by the device.
One based address
Defines if the register addresses of this device start at 1 rather than 0.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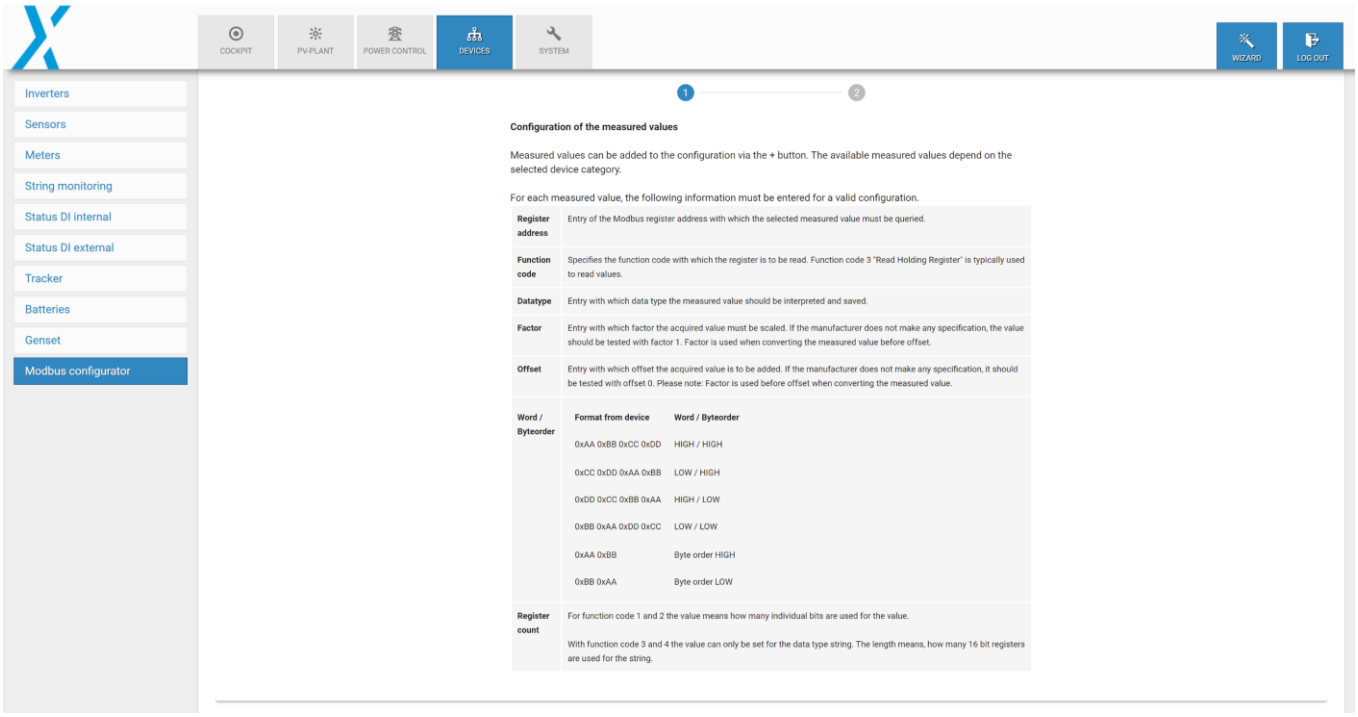
Basic settings
Measured values (1)
Device information (optional)
Configuration help
Save selected
Cancel
Search
Measured Value
Register address
Function code
Datatype
Register count
Factor
Offset
Word / Byteorder
Actions
Measured values
Current AC
1000
FC 4
U16
1
1
0
High / High
Measured values count: 1
Previous tab
Next tab
Save



Further information: www.meteocontrol.com