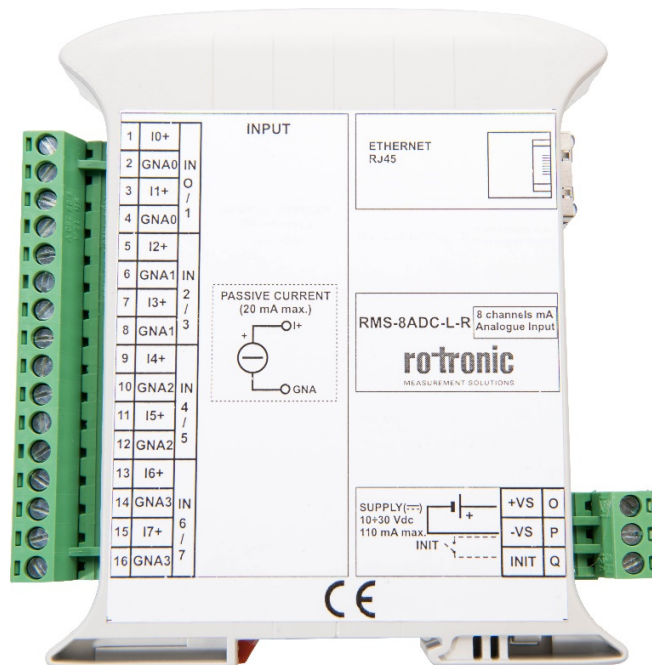


ROTRONIC MANUAL

RMS Analog Input Module



RMS Digital Output Module	rotronic
E-M-RMS-8ADC-L-R-A	Instruction Manual

Table of Contents

1	WEB SERVER STRUCTURE	3
2	FUNCTION BUTTON “P”	10
3	Integration in the RMS System	11
4	Document Version	14

RMS Digital Output Module	rotronic
E-M-RMS-8ADC-L-R-A	Instruction Manual

The digital output module RMS-8ADC-L-R-A provides 8 analog current inputs as well as an Ethernet connection for integration into the Rotronic Monitoring System (RMS).

1 WEB SERVER STRUCTURE

To access the server, run the Web browser and edit in the Address Bar the IP address of the device. It will appear the following window. Depending on the Web browser used some icons and/or writings may have little variation of shape and color.

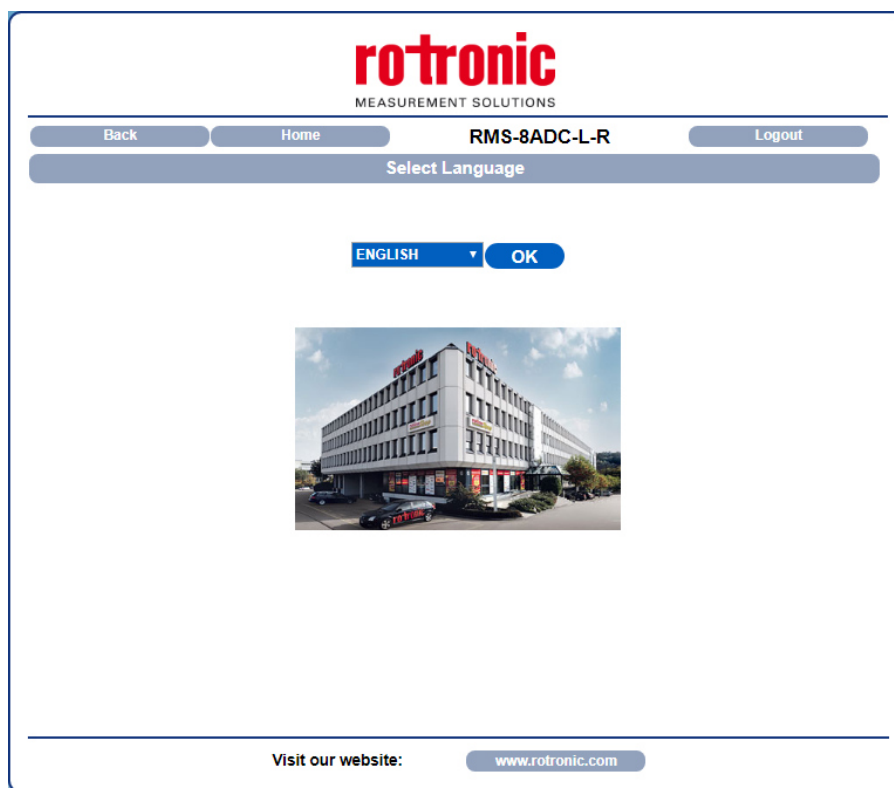
If necessary, it is possible to connect to Rotronic web site to download the data-sheet and the user guide of the device in use clicking on the button “www.rotronic.com” in the bottom part of the window.

Write Username and Password. If the default settings are in use, the parameters to access are: Username: *Fact_user*; Password: *Fact_pwd*

Click on the button Login to access to the Home page of the device; it will appear as follows. In all the web pages, on the top part of the window the buttons:

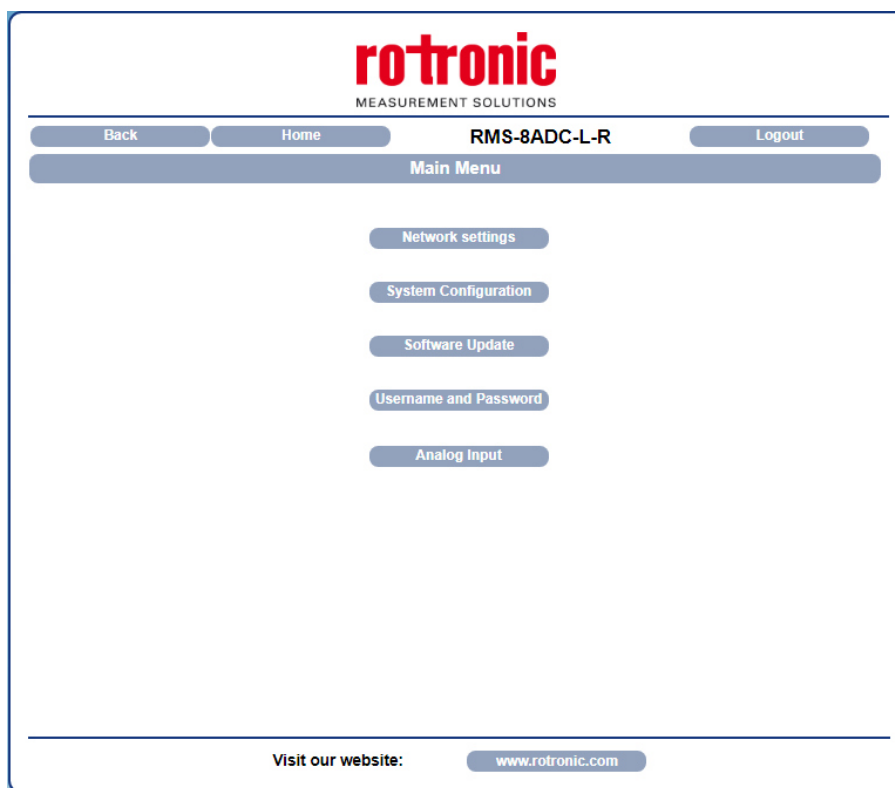
“Page Back” to go back to the page previously visualized; “Home” to return to the main page; “Logout” to quit and get back to the Login page.

RMS Digital Output Module	rotronic
E-M-RMS-8ADC-L-R-A	Instruction Manual



To access the page “Main Menu” of the device, select the language by the combobox and click the button “OK”. The following window will appear.

RMS Digital Output Module	rotronic
E-M-RMS-8ADC-L-R-A	Instruction Manual



By this page it is possible to access the internal parameters of configuration of the device. If the mouse pointer is moved on the button related to a specific menu, it will appear a green tool tip that will help the user with the selection of menus that are the following:

Network Settings: allows to set the Ethernet communication parameters.

System Configuration: allows to set the system configuration parameters.

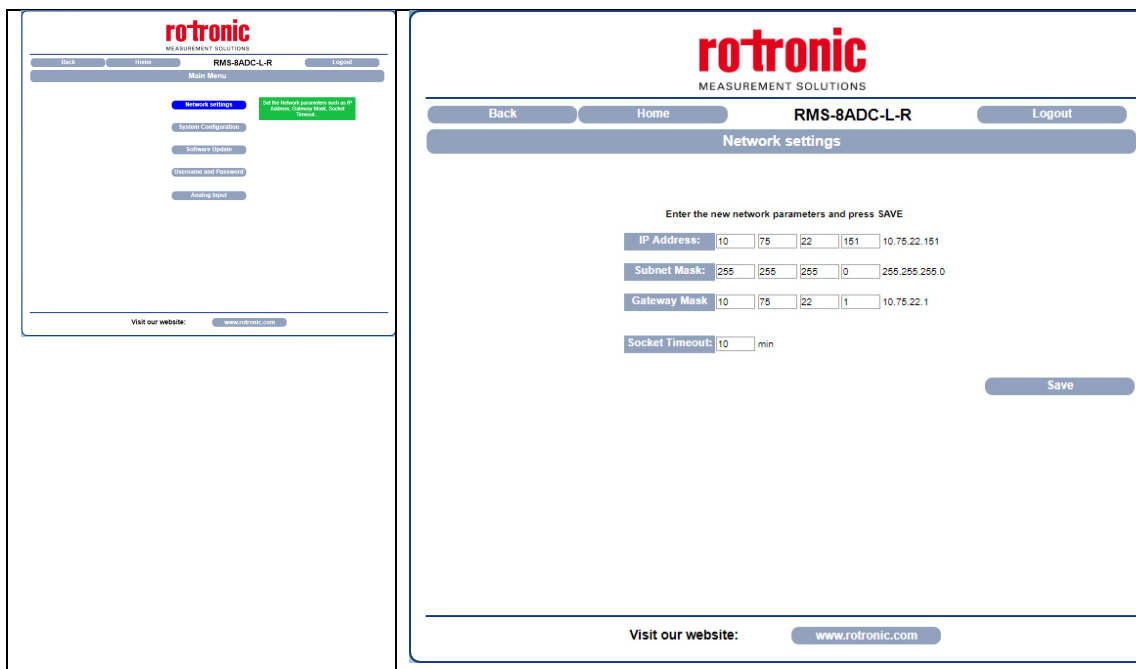
Update: allows to upgrade the software if necessary.

Username and Password: allows to set the access data used in the Login page.

Analog Input: allows to visualize the value of the analog inputs and if necessary to disable one or more

Detailed description of the menus can be found in the next sections.

RMS Digital Output Module	rotronic
E-M-RMS-8ADC-L-R-A	Instruction Manual



IP Address: allows to visualize and set the unique IP address of the device.

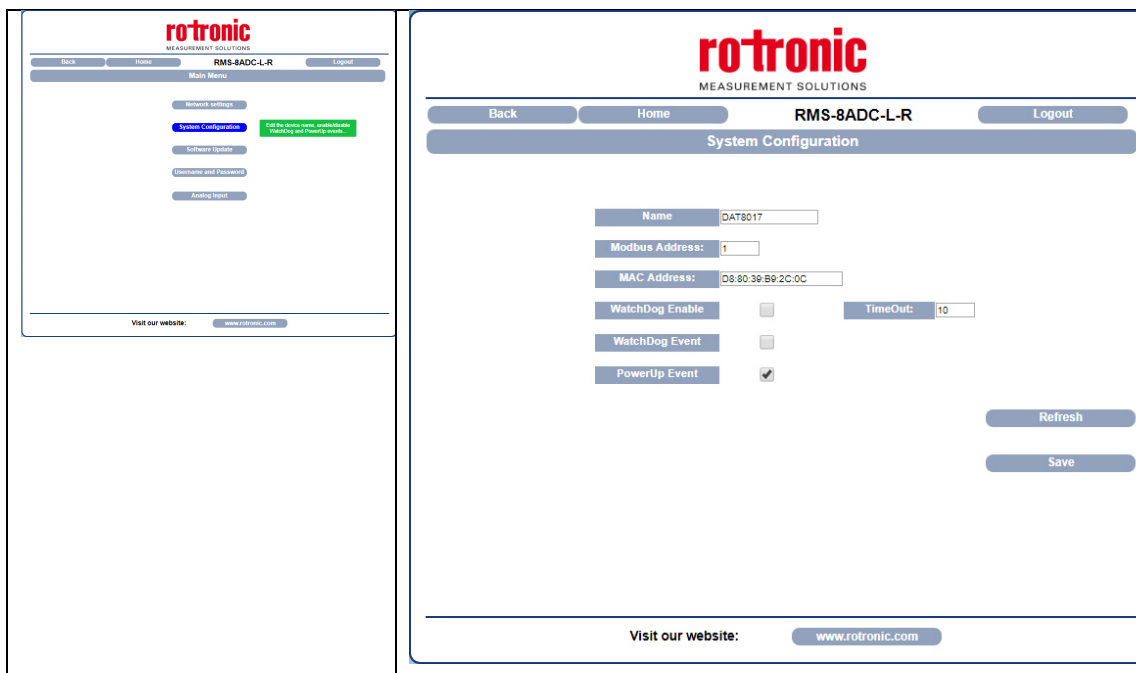
Subnet Mask: allows to set the parameter of the Subnet Mask in order to determine the local network of the device.

Gateway Mask: allows to set the parameter of Gateway Mask for the correct addressing of the device.

Socket Timeout: allows to set the time expressed as minutes; that when it expires without to receive commands, the device will close the socket of communication.

To save the modified parameters, click the button "Save". Wait for the reset of the device and access to it via the new parameters set.

RMS Digital Output Module	rotronic
E-M-RMS-8ADC-L-R-A	Instruction Manual



Name: allows to visualize the device.

Modbus Address: allows to visualize the modbus address of the device; this parameter is forced to 245 in INIT condition.

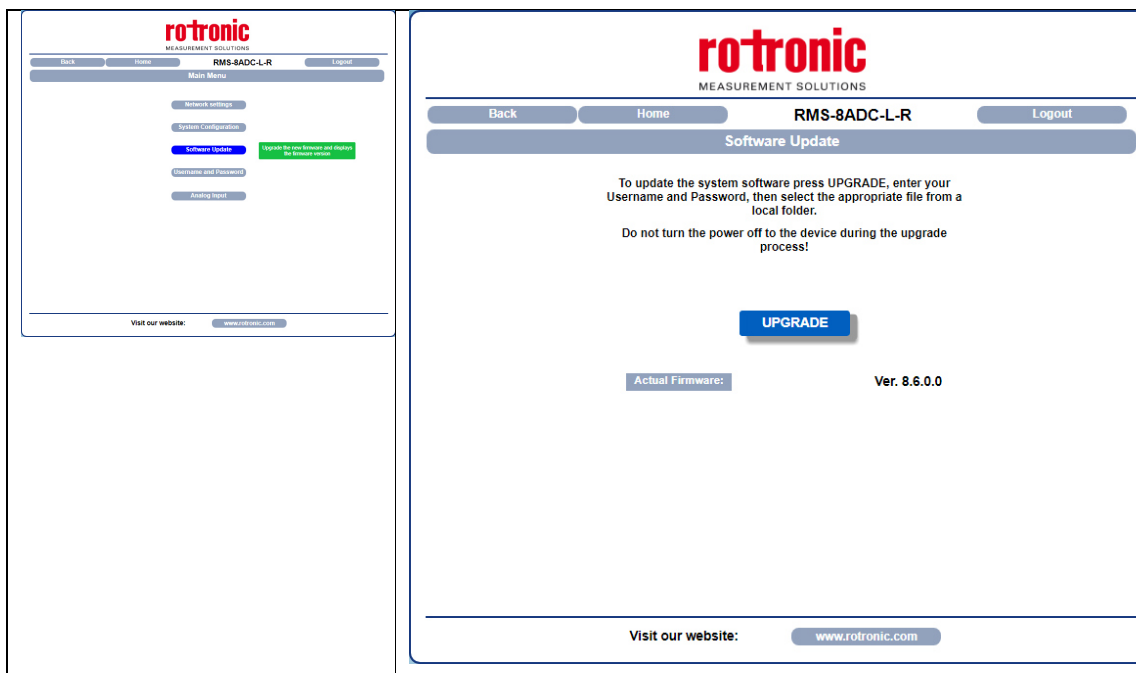
MAC Address: displays MAC address of the device

Watchdog Enable, Timeout, Watchdog Event: Watchdog function is not supported by RMS.

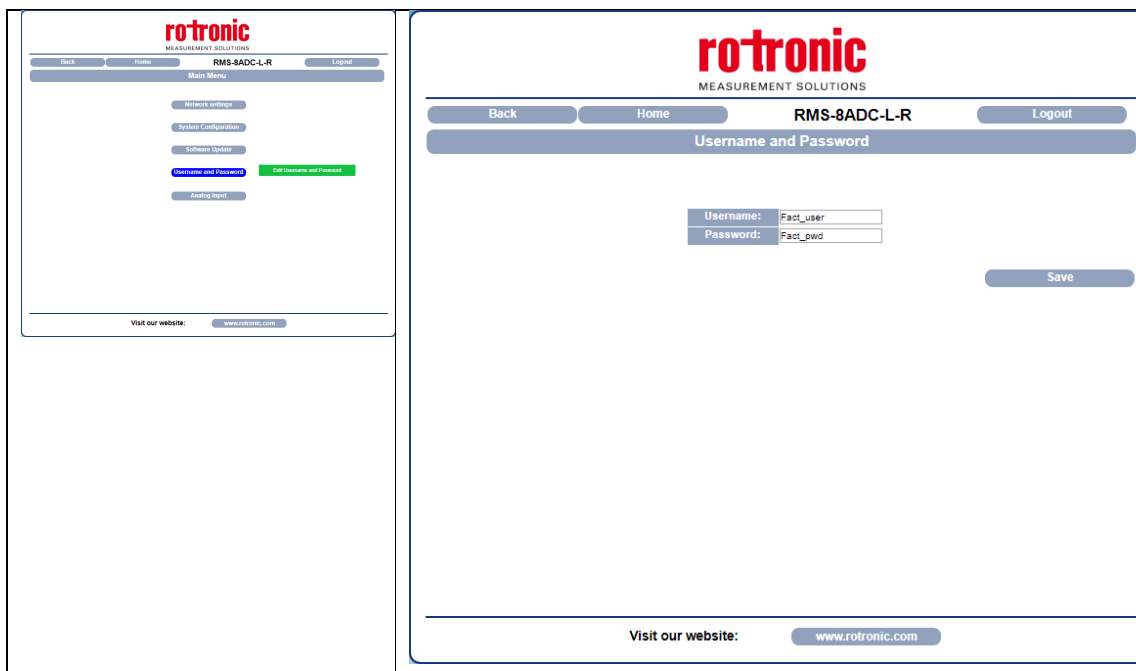
Power-up Event: this flag is forced to 1 at each power-on and indicates that the device has been switched-off or a reset has occurred. (0 = reset not happened ; 1 =reset happened).

To save the modified parameters, click the button "Save". To read the parameters from the device click the button "Refresh".

RMS Digital Output Module	rotronic
E-M-RMS-8ADC-L-R-A	Instruction Manual



This section allows to upgrade the versions of the firmware or web server and is used in case of necessity. To execute the update click on the button “Upgrade”; the system will open a pop-up window where to insert the credentials to proceed with the update. The parameter “Actual Firmware” shows the firmware version loaded on the device.



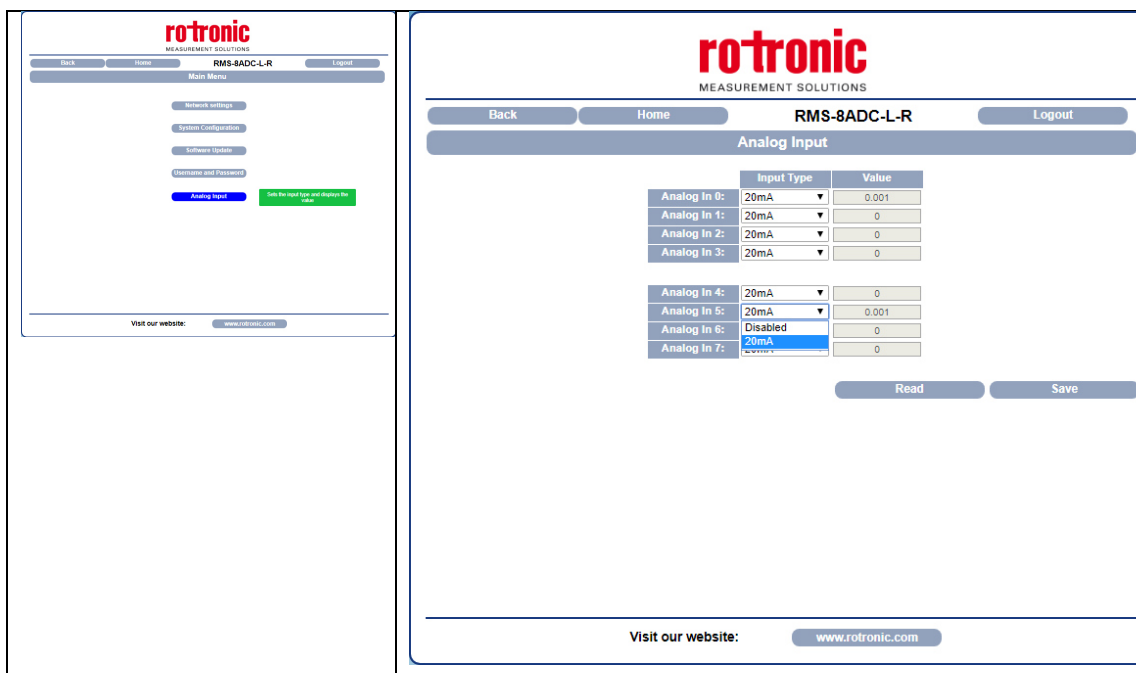
This section allows to set user name and password to access to the Webserver of the device.

Username: allows to set and visualize the user name of the device. Default “Fact_user”.

RMS Digital Output Module	rotronic
E-M-RMS-8ADC-L-R-A	Instruction Manual

Password: allows to set and visualize the password of the device. Default "Fact_pwd".

To save the modified parameters, click the button "Save".



This section allows to visualize the value of the analog inputs expressed in mA.

Each input can be disabled selecting "Disabled" from the combobox under the column "Input Type".

Clicking the button "Read" it updates the value read from the device and each field under the column "Value"

Input Type: allows to enable or disable the current input.

Value: shows the value contained in the register associated to the analog input.

To save the modifies related to "Input Type", click the button "Save".

RMS Digital Output Module	rotronic
E-M-RMS-8ADC-L-R-A	Instruction Manual

2 FUNCTION BUTTON “P”

In the case it is necessary to restore the default parameters of the device, with device powered and not in INIT condition, push the button “P” located on the front for at least 5 seconds.

The green led PWR will switch-off, the yellow led STS will become orange and the reset of the device will occur.

When the reset procedure is finish, both the leds will set back to the default condition and will be loaded the following parameters:

Ethernet:

- **IP Address:** 192.168.1.100
- **Subnet Mask:** 255.255.255.0
- **Gateway Mask:** 192.168.1.1

Username: Fact_user

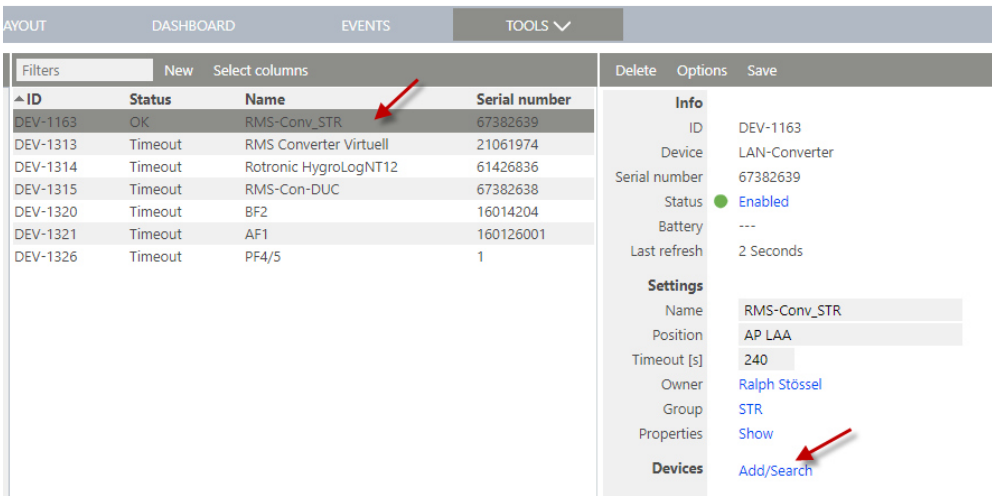
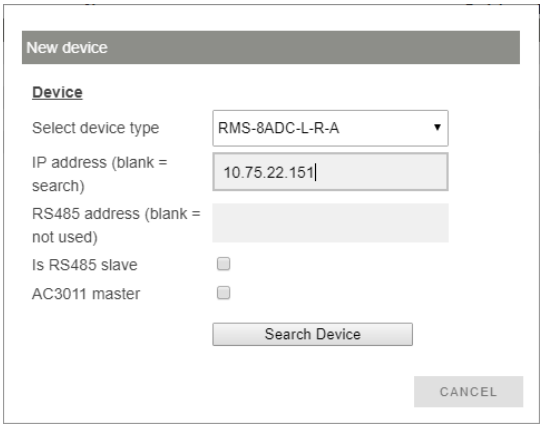
Password: Fact_pwd

Modbus address: 1

3 Integration in the RMS System

The RMS-8ADC-L-R-A can be integrated in the RMS system through the RMS-Converter, which shall be integrated to the RMS system beforehand. More information can be found in manual of RMS-Converter.

Integration in following steps as example:

1	<p>In RMS SW, tools → setup → devices, select the RMS-converter and click at “Add/Search”</p> 
2	<p>Select device type RMS-8ADC-L-R-A, and enter IP address. Then click “search device”.</p> 

3

Following window will appear, where some configurations are possible. Keep interval to 60s. Example, we choose Probe 2 and the analog input indicates differential pressure. Press “ok” to continue.

Press “ok” to continue.

4

Following dialogue pops up. Press ok to continue:

Device shall now appear on the device list in RMS.

ID	Status	Name	Serial number
DEV-1163	OK	RMS-Conv_STR	67382639
DEV-1313	Timeout	RMS Converter Virtuell	21061974
DEV-1314	Timeout	Rotronic HygroLogNT12	61426836
DEV-1315	Timeout	RMS-Con-DUC	67382638
DEV-1320	Timeout	BF2	16014204
DEV-1321	Timeout	AF1	160126001
DEV-1326	Timeout	PF4/5	1
DEV-1328	OK	8ADC # 639	0

To define scaling of the analog inputs, click on "properties show" on the right hand side.

ID	Status	Name	Serial number
DEV-1163	OK	RMS-Conv_STR	67382639
DEV-1313	Timeout	RMS Converter Virtuell	21061974
DEV-1314	Timeout	Rotronic HygroLogNT12	61426836
DEV-1315	Timeout	RMS-Con-DUC	67382638
DEV-1320	Timeout	BF2	16014204
DEV-1321	Timeout	AF1	160126001
DEV-1326	Timeout	PF4/5	1
DEV-1328	OK	8ADC # 639	0

Info

ID: DEV-1328
 Device: Third Party Device
 Serial number: 0
 Status: ● Enabled
 Battery: ---
 Last refresh: 8 Seconds

Settings

Name: 8ADC # 639
 Position:
 Interval [s]: 60
 Timeout [s]: 120
 Address: 10.75.22.151
 RS485 address: 1
 Is RS485 slave:
 Auto restore:
 Owner: Unknown
 Group: STR
 Properties: [Show](#)
 Gateway: DEV-1163, RMS-Conv_STR

In this case, 4mA to 20mA corresponds -50 to 50 Pa. Press

5

Device properties

Input 1

Input low [mV]:

Input high [mV]:

Measurement range low:

Measurement range high:

Input 2

Input low [mV]:

Input high [mV]:

Measurement range low:

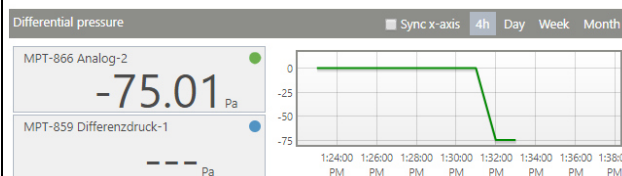
Measurement range high:

Input 3

Note: The unit for input low and input high is mV. This shall be actually mA. This will be fixed in the next version.

6

The RMS-8ADC-L-R-A is now integrated in the RMS:



RMS Digital Output Module	rotronic
E-M-RMS-8ADC-L-R-A	Instruction Manual

4 Document Version

Version	Date	Notes
V1_0	November 2017	First version