Lindab Pascal System Management User Guide

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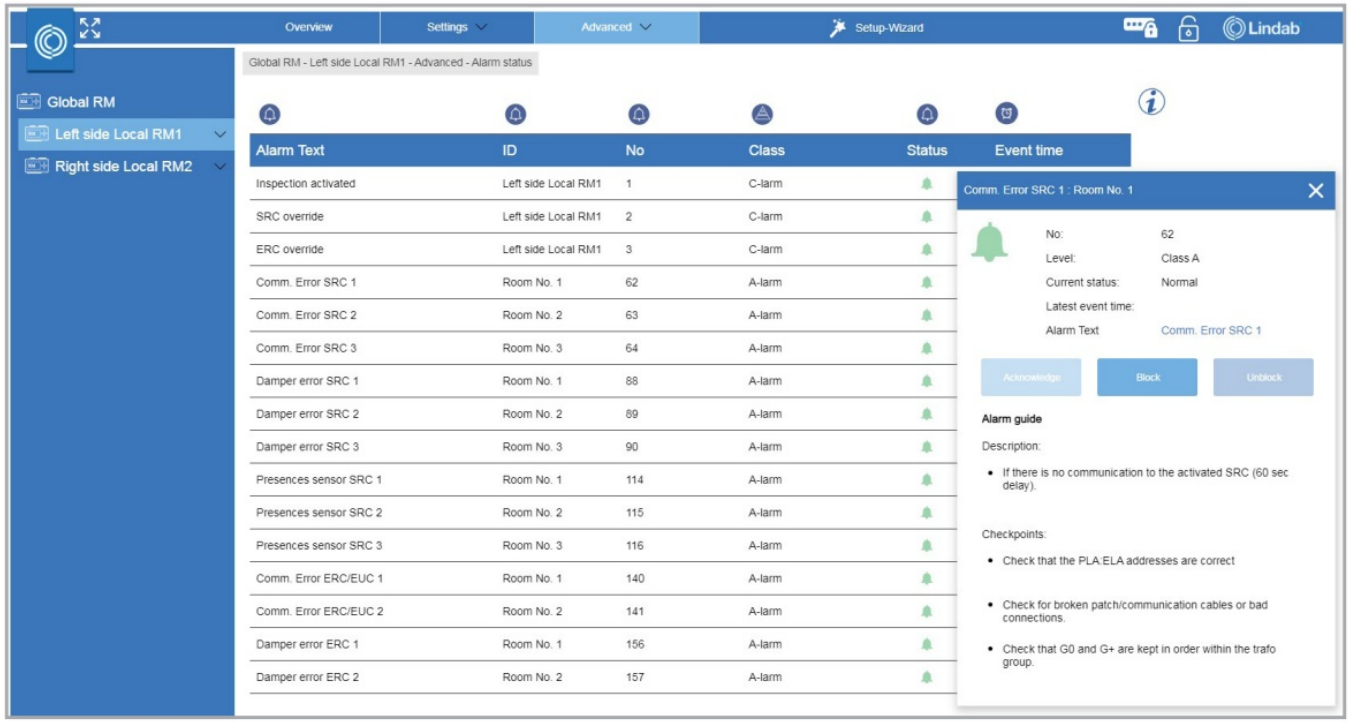
Pascal 3.0 TCP Guide

Alarms handling

The following describes how to handle alarms in Regula Master TCP – the procedure and which commands to use. In the webserver Pascal Operate the alarms for the configured controllers are listed in the Advanced section, which is reserved for “service” login, but active alarms will be readable for user and operator login as well. Here is an example for a Local RM:



Modbus/EXOline TCP

In the Lindab Pascal Signal list Modbus–Exoline there are alarm signal registers listed in both Discrete Inputs and in Input registers. The alarm signals in the Discrete Inputs are showing actual values (0/1, second by second), which is only intended for monitoring, e.g. error diagnostics. To see alarm/error status use Input register signals 2000-2178.
These alarms can have the following values: 1=Normal; 2=Blocked; 4=Cancelled; 5=Returned 7= Alarm
Commands for these alarms are found in Holding register signals 3000-3001. In Holding register 3000, set the alarm number, where 1 = Input register 2000, 2 = Input register 2001, etc. (alarm number = Input register number – 1999). Alarm numbers can also be seen in Pascal Operate Alarm status.
In Holding register 3001, the command for the selected alarm number is set. The possible commands are 1=Acknowledge, 2=Block, 3=Unblock.

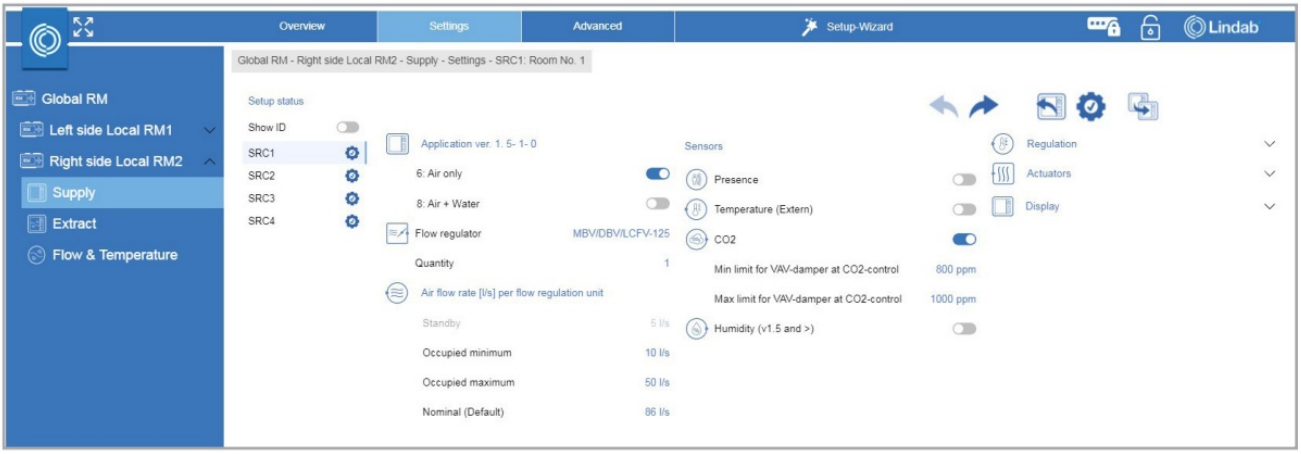
A Cancelled or Returned alarm will be set into Normal, after an Acknowledge command.

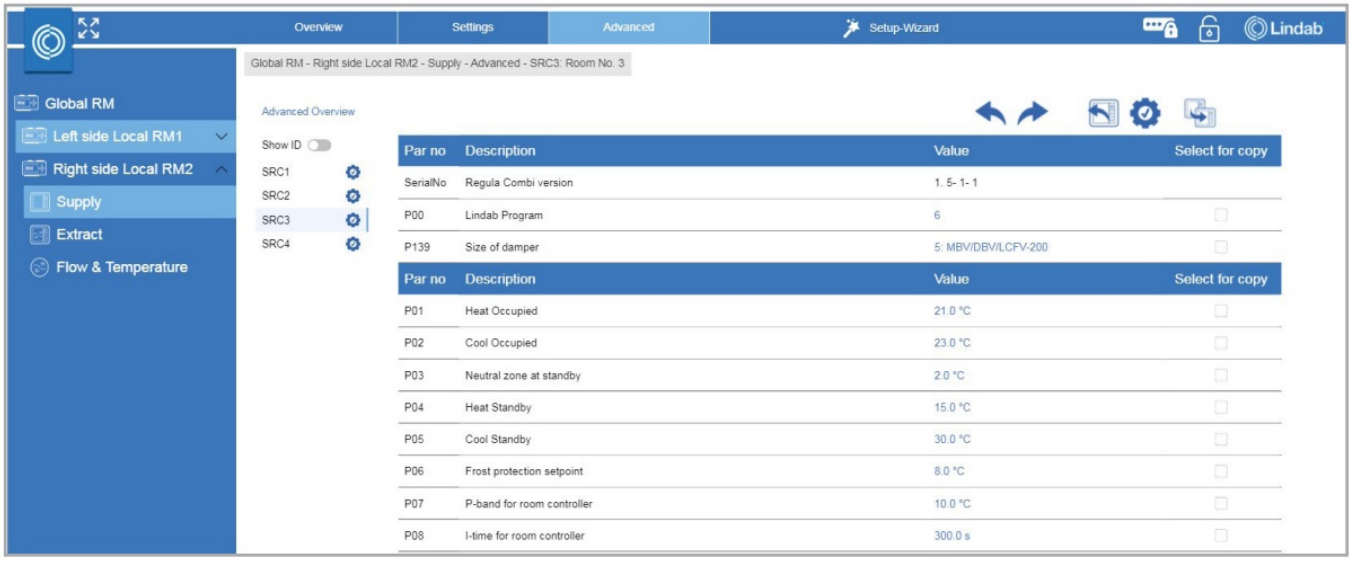
Bacnet TCP

In Bacnet TCP the status alarms are shown as Multi-state Input signals (object instance 62-179).
The alarms can have the following values: Normal(2); Blocked(3); Cancelled(4); Returned(6); Alarm(8).
Commands for these alarms are found in Analog Value-901 AlaCmdPtNo and Analog Value-902 AlaCmdExe. In Analog Value-901 AlaCmdPtNo, set the alarm number of the Multi-state Input signal (62-179). Alarm numbers can also be seen in Pascal Operate Alarm status.
In Analog Value-902 AlaCmdExe, the command for the selected alarm number is set. The possible commands are 1=Acknowledge, 2=Block, 3=Unblock.
A Cancelled or Returned alarm will be set into Normal, after an Acknowledge command

SRC commissioning parameters

For the 26 SRCs there are several commissioning parameters which both can be read and written to. However, as it is commissioning parameters, all of them are not continuously updated in the Regula Master, so they must be read and written, one SRC at a time. In the webserver Pascal Operate that is what is done for SRCs in Settings and Advanced menu when clicking on the “Update settings” and “Confirm settings icons:





Modbus/EXOline TCP

In the Lindab Pascal Signal list Modbus–Exoline, selected SRC commissioning parameters are listed in the Holding register signals 100-611, sorted in SRC numbers. These are values which are stored in each room

controller (SRC).

Reading SRC parameters procedure:

1. Prior to reading SRC parameter(s), use Holding register signal 98, by writing the SRC number value (1-26) into register 98, to update all the parameter values of that SRC.
2. Read the desired SRC parameter Holding register of that SRC.

Writing SRC parameters procedure:

1. Prior to writing value(s) into the SRC parameter(s), use Holding register signal 98, by writing the SRC number value (1-26) into register 98, to update all the parameter values of that SRC.
2. Write the value(s) to the desired SRC parameter(s) in the Holding register.
3. Write the SRC number value (1-26) into register 99, to commit changes of parameter value(s) of that SRC.

Bacnet TCP

Selected SRC commissioning parameters are listed as Analog Value signals (object instance 10113-12623), sorted in SRC numbers. These are values which are stored in each room controller (SRC).

Reading SRC parameters procedure:

1. Prior to reading SRC parameter(s), use the signal Analog Value-10098 SRC_ Read Command, by writing the SRC number value (1-26) into that register, to update all the parameter values of that SRC.
2. Read the desired SRC parameter Analog Value signal(s) of that SRC.

Writing SRC parameters procedure:

1. Prior to reading SRC parameter(s), use the signal Analog Value-10098 SRC_ Read Command, by writing the SRC number value (1-26) into that register, to update all the parameter values of that SRC.
2. Write the value(s) to the desired SRC parameter(s) in the Analog Value signal(s).
3. Write the SRC number value (1-26) into Analog Value-10099 SRC_ Write Command, to commit changes of parameter value(s) of that SRC.

Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.
We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people’s lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

Customer Support

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Documents / Resources

	Lindab Pascal System Management [pdf] User Guide Pascal System Management, System Management, Pascal System, Management

References

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