#### Commissioning Guide for Vigilohm IM400THRN

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

#### About this guide

This guide explains about the commissioning procedure of Vigilohm IM400THRN.

Throughout this guide, the term "device" refers to Vigilohm IM400THRN.

For detailed installation and operating instructions, including safety messaging, read the device instruction sheets and user manual.

#### **Document Reference**

Title	Number
Instruction Sheet: Vigilohm IM400THRN	GDE30186
User Manual: Vigilohm IM400THRN	7EN02-0423

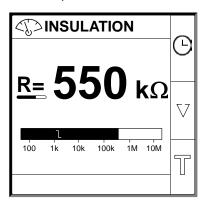
## Setting date and time

On first power up, set the date and time. Setting date and time ensures proper timestamps for the logs and trends.

1. Turn on the power supply.

Auto-test begins in the device. Wait for 10 seconds for auto test to complete.

If auto-test passes, the **INSULATION** screen displays a resistance value. An example **INSULATION** screen is:

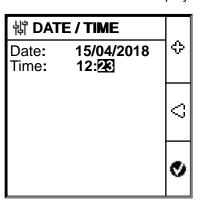


If auto-test fails, an error code is displayed.



2. Press the flashing button.

**NOTE:** The clock icon flashes to show that date and time needs to be set. The **DATE/TIME** screen displays.

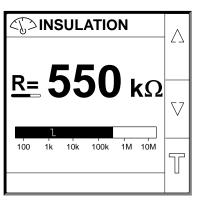


- 3. Set the date and time using the contextual menu buttons  $\stackrel{\triangleleft}{\hookrightarrow}$  and  $\stackrel{\diamondsuit}{\hookrightarrow}$  .
- 4. Press button to save the date and time.

A message Saved displays.



The **Insulation** screen displays a resistance value. An example **INSULATION** screen is:

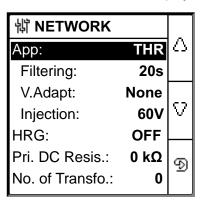


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## **Configuring network parameters**

1. Navigate to **Menu > Settings > Network**.

The **NETWORK** screen displays.



2. Modify the parameters value as per the following table:

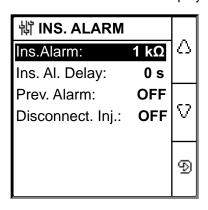
**NOTE:** Use the contextual menu buttons to modify the parameters value.

Parameter	Allowed Values	Default Value	Description
Арр	THR	THR	THR for medium voltage systems.
Filtering	· 2s · 20s · 200s	20s	Select the filtering time depending on the application.  NOTE: This value selection is restricted depending on the App value selection.
V.Adapt	• None • P1N	P1N	Select the adaptor if the network voltage is greater than the rated network voltage of the device.  NOTE: This value selection is restricted depending on the App value selection.
Injection	• 20V • 40V • 60V • 80V	60V	Select the injection depending on the application.  NOTE: This value selection is restricted depending on the App value selection.
HRG	• OFF • 0.12 MΩ	OFF	<ul> <li>Select OFF so that the device does not compensate the reported insulation resistance with the value of the neutral grounding resistance.</li> <li>Select the value of the neutral grounding resistance, which the device compensates the measure insulation resistance.</li> </ul>
Pri.DC Resis	050 kΩ	0 kΩ	Select the value of resistance of the compatible Schneider Electric voltage transformer primary winding.
No. of Transfo	· 0 · 1 · 3	0	Select the value of number of transformer connected.

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# **Configuring insulation alarm parameters**

Navigate to Menu > Settings > Ins. Alarm.
 The INS. ALARM screen displays.



2. Modify the parameters value as per the following table:

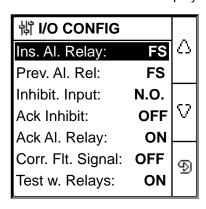
**NOTE:** Use the contextual menu buttons to modify the parameters value.

Parameter	Allowed Values	Default Value	Description
Ins. Alarm	0.04500 kΩ	1 kΩ	Select the value of insulation alarm threshold.
Ins. Al. Delay	0 s120 minutes	0 s	Select the value of time delay for insulation alarm.
Prev. Alarm	• 1 kΩ1 MΩ • OFF	OFF	Select the value of preventive insulation alarm threshold.
Prev. Al. Del	0 s120 minutes	0 s	NOTE: This parameter is enabled when Prev. Alarm is set to any value between 1 kΩ1 MΩ.  Select the value of time delay for preventive insulation alarm.
Disconnect. Inj	· ON · OFF	OFF	<ul> <li>Select ON to detect the disconnection of injection wiring.</li> <li>Select OFF to disable this feature.</li> </ul>

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## **Configuring input output parameters**

Navigate to Menu > Settings > I/O Config.
 The I/O CONFIG screen displays.



2. Modify the parameters value as per the following table:

**NOTE:** Use the contextual menu buttons to modify the parameters value.

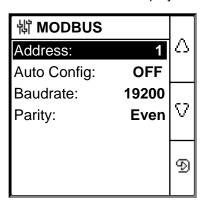
Parameter	Allowed Values	Default Value	Description
Ins. Al. Relay	• Std. (Standard) • FS (Failsafe)	FS (Failsafe)	Select the mode of insulation alarm relay depending on the status of insulation. Refer user manual for more information.
Prev. Al. Rel	<ul><li>Std. (Standard)</li><li>FS (Failsafe)</li><li>Mirror</li></ul>	FS (Failsafe)	Select the mode of preventive insulation alarm relay depending on the status of insulation. Refer user manual for more information.
Inhibit. Input	• N.O. • N.C. • OFF	N.O.	Select the configuration of injection inhibition input . Refer user manual for more information.
Ack Inhibit	· ON · OFF	OFF	<ul> <li>Select ON to acknowledge the inhibition signal status.</li> <li>Select OFF to disable this feature.</li> </ul>
Ack Al. Relay	· ON · OFF	ON	<ul> <li>Select <b>ON</b> to trigger relays when acknowledging alarm.</li> <li>Select <b>OFF</b> to disable this feature.</li> </ul>
Corr. Flt. Signal	• ON • OFF	OFF	<ul> <li>Select ON to reactivate the insulation alarm relay for 3 seconds when the insulation level rises above the setup threshold.</li> <li>Select OFF to disable this feature.</li> </ul>
Test w. Relays	· ON · OFF	ON	<ul> <li>Select ON to include a three-second toggle of the preventive insulation alarm relay and insulation alarm relay during a manually launched auto-test.</li> <li>Select OFF to disable this feature.</li> </ul>
Inhibit. Type	• Int • Ext	Int	<ul> <li>Select Int to disconnect the device relay from external network during inhibition state.</li> <li>Select OFF to connect the device relay to the external network during inhibition state.</li> </ul>

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# **Configuring Modbus parameters**

1. Navigate to Menu > Settings > Modbus.

The Modbus screen displays.



2. Modify the parameters value as per the following table:

**NOTE:** Use the contextual menu buttons to modify the parameters value.

Parameter	Allowed Values	Default Value	Description
Address	1247	1	Select the required Modbus address.
Auto Config	· ON · OFF	OFF	Select ON to activate Modbus communication with different baud rate or parity.  Select OFF to disable this feature.  NOTE: If you select ON, the parameters Baudrate and Parity are disabled.
Baudrate	<ul><li>4800</li><li>9600</li><li>19200</li><li>38400</li></ul>	19200	Select the required baud rate.
Parity	<ul><li>Even</li><li>Odd</li><li>None</li></ul>	Even	Select the required parity.

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