Commissioning Guide for Vigilohm IM400 / IM400L

About this guide

This guide explains about the commissioning procedure of Vigilohm IM400 / IM400L.

Throughout this guide, the term "device" refers to Vigilohm IM400 / IM400L. All differences between the models, such as a feature specific to one model, are indicated with the appropriate model number or description.

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

Document Reference

Title	Number
Instruction Sheet: Vigilohm IM400 / IM400L	S1B9007601
User Manual: Vigilohm IM400 / IM400L	DOCA0049EN

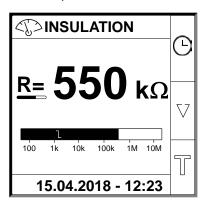
Setting date and time

On first power up, set the date and time.

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:

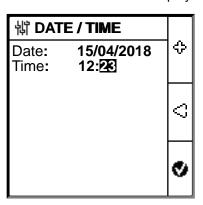


If auto-test fails, an error code is displayed.



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.

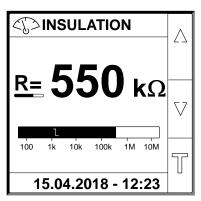


- 3. Set the date and time using the contextual menu buttons $\stackrel{\triangleleft}{\hookrightarrow}$ and $\stackrel{\diamondsuit}{\hookrightarrow}$.
- 4. Press button to save the date and time.

A message Saved displays.



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

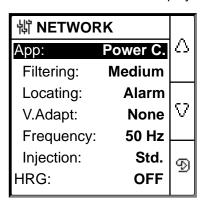


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Configuring network parameters

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.

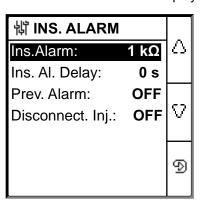
Parameter	Allowed Values	Default Value	Description
Арр	Power C. Control C	Power C	Select Power C for industrial or marine applications that contain power loads and power electronics such as speed drives, inverters, or rectifiers.
			 Select Control C for auxiliary control circuits used to drive power systems which contain sensitive loads such as PLCs, IOs, or sensors.
Filtering	• Short	Medium	Select the filtering time depending on the application.
	MediumLong		NOTE: This value selection is restricted depending on the App value selection.
Locating	• OFF • Prev.Al.	Alarm	 Select Alarm if boost mode is required in case of active insulation alarm and Insulation resistance is less than 2 KΩ (if using XD312 as fault locator).
	• Alarm		• Select Prev.Al if boost mode is required in case of active preventive insulation alarm and Insulation resistance is less than 50 K Ω (if using XD312H as fault locator).
			NOTE: If you select Prev.AI., you need to select the preventive alarm threshold.
			 This value selection is restricted depending on the App value selection.
V.Adapt	NoneVA2	None	Select the adaptor if the network voltage is greater than the rated network voltage of the device.
	PHT1000HV1700		NOTE: This value selection is restricted depending on the App value selection.
Frequency	• 50 Hz	50 Hz	Select the rated frequency of the monitored power system.
	• DC • 400 Hz • 60 Hz		NOTE: This value selection is restricted depending on the App value selection.
Injection	• Std.	Std.	Select the injection depending on the application.
	LowMinMax		NOTE: This value selection is restricted depending on the App value selection.
HRG	• OFF • 0.12 MΩ	OFF	Select OFF so that the device does not compensate the reported insulation resistance with the value of the neutral grounding resistance.
			 Select the value of the neutral grounding resistance, which the device compensates the measure insulation resistance.

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Configuring insulation alarm parameters

1. Navigate to **Menu > Settings > Ins. Alarm**.

The INS. ALARM screen displays.



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

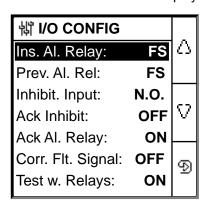
NOTE: Use the contextual menu buttons to modify the parameters value.

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	 Select ON to detect the disconnection of injection wiring. Select OFF to disable this feature.

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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. • FS	FS	Select the mode of insulation alarm relay depending on the status of insulation. Refer user manual for more information.
Prev. Al. Rel	Std.FSMirror	FS	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	 Select ON to acknowledge the inhibition signal status. Select OFF to disable this feature.
Ack Al. Relay	· ON · OFF	ON	 Select ON to trigger relays when acknowledging alarm. Select OFF to disable this feature.
Corr. Flt. Signal	· ON · OFF	OFF	 Select ON to reactivate the insulation alarm relay for 3 seconds when the insulation level rises above the setup threshold. Select OFF to disable this feature.
Test w. Relays	· ON · OFF	ON	Select ON to include a three-second toggle of the preventive insulation alarm relay and insulation alarm relay during a manually launched self-test. Select OFF to disable this feature.

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