

Commissioning Guide for Vigilohm IFL12C / IFL12MC / IFL12MCT

About this guide

This guide explains about the commissioning procedure of Vigilohm IFL12C / IFL12MC / IFL12MCT.

Throughout this guide, the term “device” refers to Vigilohm IFL12C / IFL12MC / IFL12MCT. 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

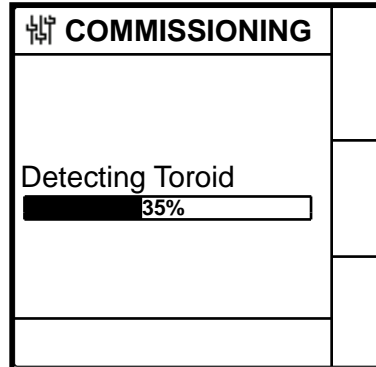
Title	Number
Instruction Sheet: Vigilohm IFL12C / IFL12MC / IFL12MCT	QGH34269
User Manual: Vigilohm IFL12C / IFL12MC / IFL12MCT	7EN02-0406

Automatic Commissioning

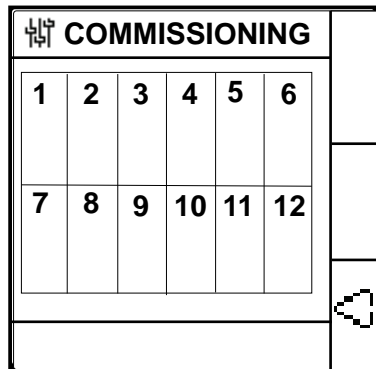
At first power up, the device performs automatic commissioning.

1. Connect 12 toroids and turn on the power supply.

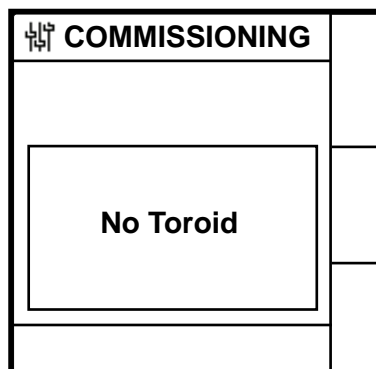
The device displays **Detecting Toroid** message with a percentage progress bar.



- If toroid is detected, the **Commissioning** screen displays.



- If toroid is not detected, the **No Toroid** message displays.



Perform one of the following action:

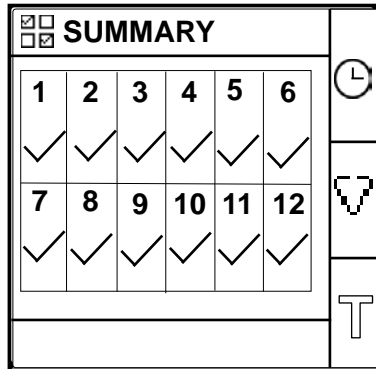
- Check if the toroid is properly connected and navigate to **Menu > Settings > Commission > Auto**. The device performs automatic commissioning.
- The connected toroid is not compatible with the device.
 - For IFL12MC and IFL12MCT: The device should be manually commissioned. See *Manual Commissioning, page 4*.
 - For IFL12C: Connect a compatible toroid and navigate to **Menu > Settings > Commission > Auto**. The device performs automatic commissioning.

2. Press  button.

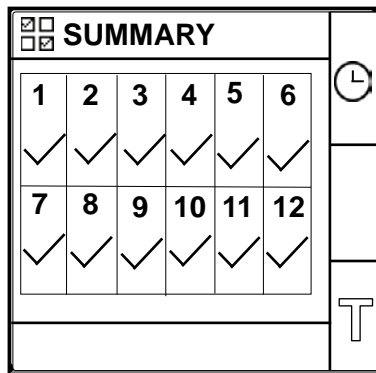
The device exits the commissioning mode and displays **Summary** screen.

NOTE: The clock icon flashes to show that date and time needs to be set.

For IFL12MC and IFL12MCT:



For IFL12C:



NOTE:

- The device automatically exits commissioning mode after one hour if manual exit is not performed.
- If you have connected a new toroid or replaced a toroid, navigate to **Menu > Settings > Commission > Auto**. The device performs automatic commissioning.

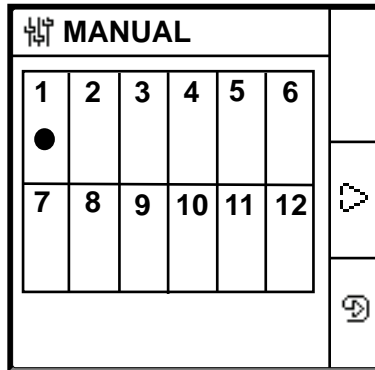
Manual Commissioning



Applicable for IFL12MC and IFL12MCT.

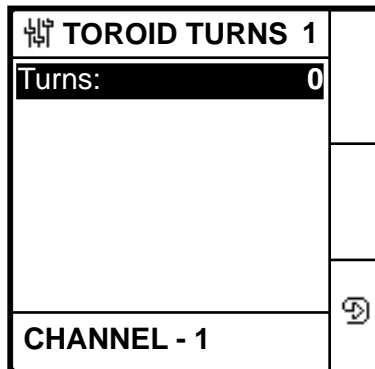
The device must be manually commissioned if the connected toroid is not compatible with the device.


NOTE: Refer to the Vigilohm catalog for the most up to date listing of compatible toroids.

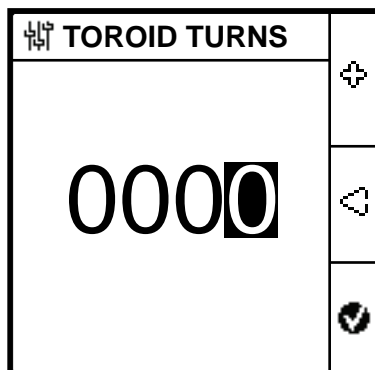
1. Navigate to **Menu > Settings > Commissioning > Manual**.
The **Manual** screen displays the channel grid and a flashing dot on the channel 1 grid. This indicates the channel 1 is selected.






2. Select a non commissioned channel using the  button and press the  button.
The **Toroid Turns** screen displays the toroid turns value for the selected channel with channel name and number.

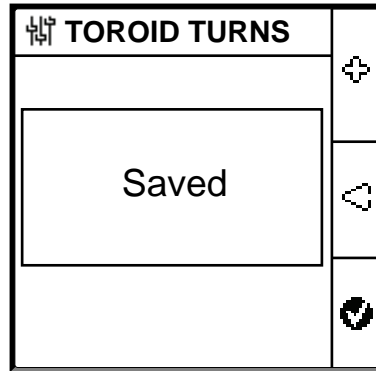


3. Press the  button.
The **Toroid Turns** screen displays the toroid turns value



4. Set the toroid turns (Allowed values: 300 to 3000) using the contextual menu buttons  and .

5. Press the  button to save the toroid turns.
A message **Saved** displays.



6. Perform steps 2 to 5 for other non commissioned channels.

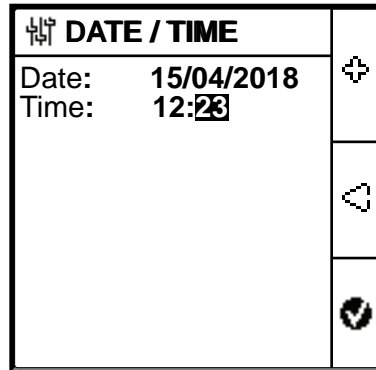
Setting date and time



Setting date and time ensures proper logs and trends.


1. Press the flashing  button.

NOTE: The clock icon flashes to show that date and time needs to be set.

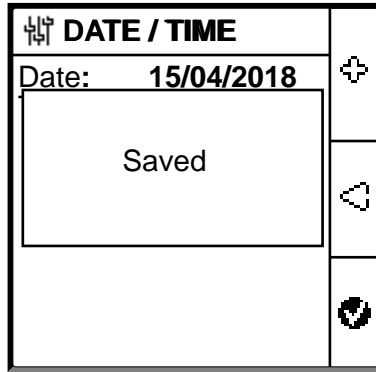
The **DATE/TIME** screen displays.



2. Set the date and time using the contextual menu buttons  and .

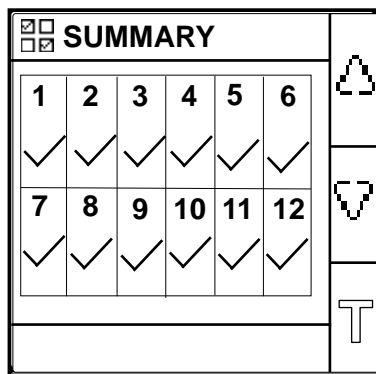
- Press  button to save the date and time.

A message **Saved** displays.

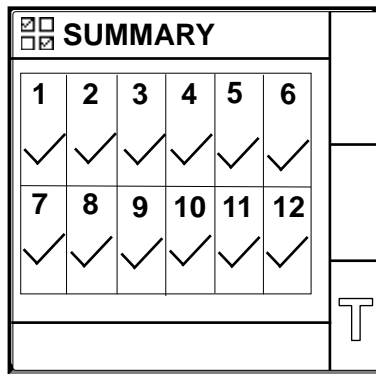


The **Summary** screen displays.

For IFL12MC and IFL12MCT:



For IFL12C:

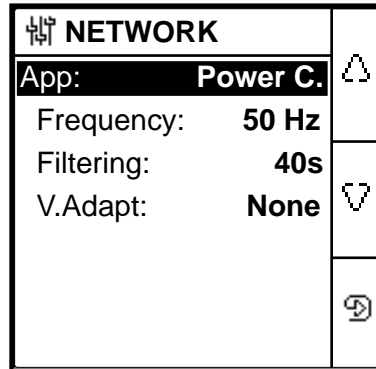


Configuring network parameters

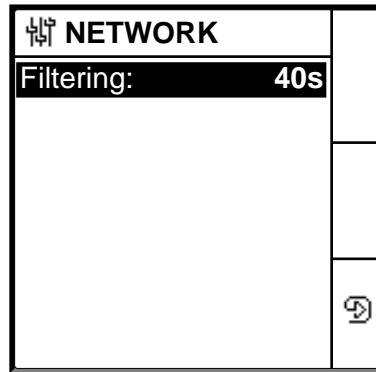
1. Navigate to **Menu > Settings > Network**.

The **NETWORK** screen displays.

For IFL12MC and IFL12MCT:



For IFL12C:



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

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

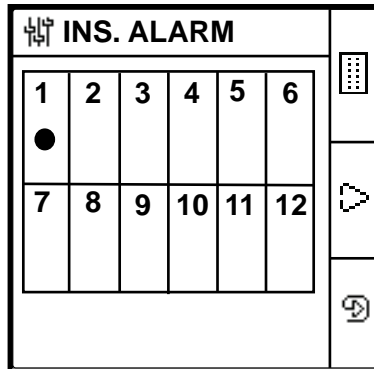
Parameter	Allowed Values	Default Value	Description
App ¹	<ul style="list-style-type: none"> • Power C. • Control C 	Power C	<ul style="list-style-type: none"> • Select Power C for industrial or marine applications that contain power loads and power electronics such as speed drives, inverters, or rectifiers. • Select Control C for auxiliary control circuits used to drive power systems which contain sensitive loads such as PLCs, IOs, or sensors.
Frequency ¹	<ul style="list-style-type: none"> • 50 Hz • DC • 400 Hz • 60 Hz 	50 Hz	Select the rated frequency of the monitored power system.
Filtering	IFL12MC and IFL12MCT: <ul style="list-style-type: none"> • 5s • 40s • 400s IFL12C: <ul style="list-style-type: none"> • 5s • 40s 	40s	Select the filtering time depending on the application.
V.Adapt ¹	<ul style="list-style-type: none"> • None • PHT1000 	None	Select the adaptor if the network voltage is greater than the rated network voltage of the device.

1. Applicable for IFL12MC and IFL12MCT

Configuring insulation alarm parameters (IFL12MC and IFL12MCT)

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

The **INS. ALARM** screen displays with the channel grid and a flashing dot on the channel 1 grid. This indicates the channel 1 is selected.

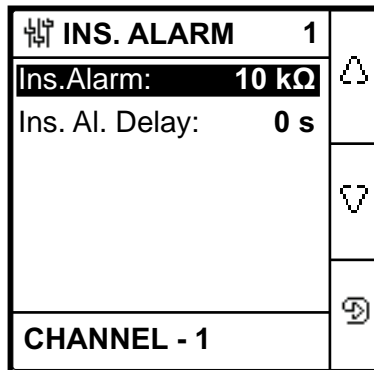


2. Perform any one of the following:

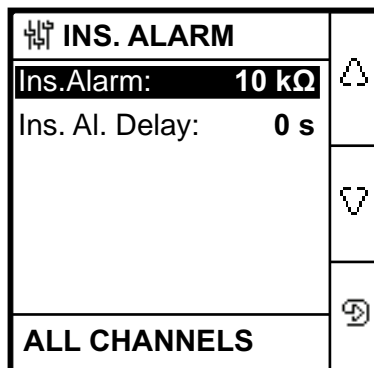
- To modify the value for channel 1, press button.
- To modify the value for other channels, press button to navigate to the desired channel and press button.
- To modify the value for the all channels, press button and press button.

The **INS. ALARM** screen displays.

For individual channels:



For all channels:



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

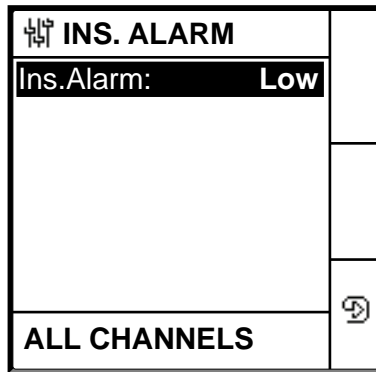
NOTE: Use the contextual menu buttons to modify the parameters value.

Parameter	Allowed Values	Default Value	Description
Ins. Alarm	0.2...200 k Ω	10 k Ω	Select the value of insulation alarm threshold.
Ins. Al. Delay	0 s...120 mn	0 s	Select the value of time delay for insulation alarm.

Configuring insulation alarm parameters (IFL12C)

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

The **INS. ALARM** screen displays.



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

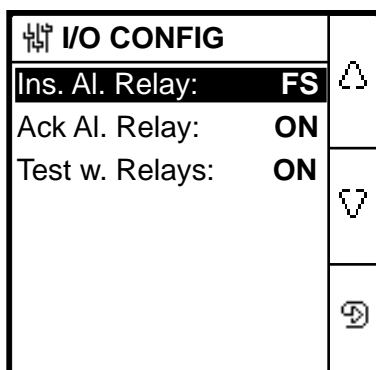
NOTE: Use the contextual menu buttons to modify the parameters value.

Parameter	Allowed Values	Default Value	Description
Ins. Alarm	<ul style="list-style-type: none"> • Low • Medium • High 	Low	Select the option as per the following: <ul style="list-style-type: none"> • Low: The device detects low-impedance insulation faults. • Medium: The device detects medium-impedance insulation faults. • High: The device detects high-impedance insulation faults.

Configuring input output parameters

Applicable for IFL12MC and IFL12MCT.

1. 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	<ul style="list-style-type: none"> • Std. • FS 	FS	Select the mode of insulation alarm relay depending on the status of insulation. Refer user manual for more information.
Ack Al. Relay	<ul style="list-style-type: none"> • ON • OFF 	ON	<ul style="list-style-type: none"> • Select ON to trigger relays when acknowledging alarm. • Select OFF to disable this feature.
Test w. Relays	<ul style="list-style-type: none"> • ON • OFF 	ON	<ul style="list-style-type: none"> • 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.