



Indaba Explorer

User Documentation

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1. Introduction

1.1 Access Indaba Explorer

To log in to Indaba Explorer, launch the IO-Base portal URL. You will land on the portal home page.



Click on the **Indaba Explorer** tile to open the application. You are led to Indaba Explorer, in the **Chart** menu.

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11:00 11:10	11:20	11:30	11:40	11:50	

2. Curves

2.1 Accéder au menu des courbes

Open the Indaba Explorer application, available on the portal.



The **Chart** screen is the screen displayed by default.

io-base	📈 Chart	Metrics	
R SEARCH			

This screen displays the values of your metrics.

2.2 Display of curves from tree hierarchies

Prerequisite : be in the Chart menu of Indaba Explorer.

To find metrics from functional trees, click on the



button.



Tree navigation is displayed on the left side of the screen.

A drop-down list allows you to select the referential containing the metric you are looking for.

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Site 1					
Site 2					
Storage					
Terminal					
Weather					

You can navigate inside the tree and click on the different folders to open them.

A **search** button is at your disposal to allow you to search for a metric quickly.

Click on the **search** button.

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Site 1			
Site 2			

A search area opens, enter the name or part of the name of the metric you need.

The metrics matching the search are displayed.

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To cancel the search, click on



The tree view returns to its initial state.





Note : the trees and referentials are created by the administrators.

To view a metric's values, click on the + icon next to it.



The curve showing the metric's values is displayed in the middle of the screen.

You can select multiple metrics simultaneously, to display multiple curves on the graph.

Note : you can display up to 50 metrics at the same time.



By clicking on " - " , the metric is removed from the curve.

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Site 1		4
Compresseur 1		
i nj26uv_nexobc	Θ	60
Pression	Ð	50
Pressure	\oplus	50
S T Volume	Ð	40
Site 2		
		3 30

The legend indicating the metrics displayed is located under the graph.



In the tree view, when you hover the mouse over, the "i" icon displays additional information about the metric.



datasource : main tag : nj26uv_nexobc description : desciption unit : °ce value : 24.3 timestamp : 1/2/2025, 3:5	59:59 PM	Refres 10	Q SE h (s)
i nj26uv_nexobc	Θ	60	
i Pression	\oplus	50	
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Note : When no value for a metric has been reported for longer than 30 minutes, a red icon is displayed to indicate a problem.



Note : the double-arrow icon in the upper right corner allows you to optimize the display by switching to full-screen mode.



Note : In tree views, only metrics for which the user has rights appear. However, administrators can see all metrics.

2.3 Display metrics from the search

Prerequisite : be in the Curves menu of Indaba Explorer

Click on the **Search** button to open the search window.

🕸 io-base	✓ Chart	E Metrics
■t Q search		

The search window contains two tabs :

- Search by metadata
- Search by metric name

SEARCH METRIC	2
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SAVE X

ain	▼ Metric name	Description	Unit			
Metric	Des	cription		Unit	Action	
indabox_test_int_m	odbus_ireg214_0			Add a unit	÷	
modbus_int_int0				Add a unit	Ð	
cip_int_170				Add a unit	Ð	
modbus_int_40103h				Add a unit	Ð	
nj26uv_taux_humid	ite_sortie_silot1			Add a unit	Ð	
					Items per p	age 5 👻 < >

You can select metrics from both tabs at once.

Select the metrics you want, then click on **OK**. The curves will be displayed.

Note : you can display up to 50 curves simultaneously on the graph. You can therefore select up to 10 metrics.

2.3.1 Search by metadata

In this tab, you will be able to do a metric search based on metadata.

In the drop-down list, select a tree. The metrics list is updated.

SEARCH METRIC

By metric By metadata • Demo GTB Site - Adresse Unit Datasource Description Name Datasource Site - Adresse Actions Ð nj26uv_etat_vanne_elementaire test main Ð tester nj26uv_etat_vanne_garderie main test Ð nj26uv_etat_vanne_maternelle main test Ð nj26uv_index_compteur_elec main test Ð nj26uv_index_compteur_gaz main test Ð nj26uv_taux_humidite_elementaire test main Ð nj26uv_taux_humidite_garderie main testl test nj26uv_taux_humidite_maternelle test Ð main

Note : You have the possibility to choose the number of results displayed per page.

SAVE X



The search areas make it easier for you to find a metric. Simply fill in the search values and click on the **Search** button.

The table below is updated.

		Ву	metric E	y metadata		
Tree structure Demo GTB						
Name	Datasource	Description	Unit	Site - Adre	esse	
Name			Datasource	Description	Unit Site - Adress	se
niOCuu atat uanna ala	menteire		na oʻla		toot	

To add a metric to the selection, click on the + button.

		S	EARCH MET	RIC		SA
26uv_etat_vanne_e	elementaire 🔾 nj26uv_et	tat_vanne_garderie ⊖				
		By me	tric E	y metadata		
Tree structure Demo GTB	•					
Name	Datasource	Description	Unit	Site -	Adresse	
Name			Datasource	Description	Unit Site - Adresse	Actions
nj26uv_etat_vann	e_elementaire		main		test	Θ
nj26uv_etat_vann	e_garderie		main	tester	test	Θ
ni26uv etat vann	e maternelle		main		test	(+)

The list of selected metrics is displayed at the top of the window.

To cancel the selection of a metric, click on the delete button in the **Action** column.

2.3.2 Search by metric name

This type of search is based on the metric's name. Therefore, you can search a metric

SEARCH METRIC

		Ву	metric By	metadata
nain	Metric name	Description	Unit	
Metric	De	escription		Unit
indabox test int mo	odbus irea214 0			Add a upit

The first drop-down list is used to select the database in question.

Note : in general, the production database is called **prod**.

Once the database is selected, start typing the metric's name.

The results are displayed in the table.

Note: You can also search for a metric using its description or unit.

		By metric	By metadata
main •	Metric name	Description	Unit
Metric	Descripti	on	U

You can click on the + button to select more metrics.

2.3.3 Using wildcards

To search for metrics, you can use the wildcard " * " to represent an undefined sequence of characters. The symbol can be used at any position in the search :

- If you enter **mytag**, the search automatically performs as ***mytag***, finding all occurrences containing **"mytag**" (e.g., **abc_mytag_xyz**).
- If you enter *mytag, the results will show metrics that end with "mytag" (e.g., sfdjkosfj_mytag).
- If you enter mytag*, the results will show metrics that start with "mytag" (e.g., mytag_123).
- If you enter my*tag, you will get metrics containing "my" followed by "tag" with any characters in between (e.g., my_xyz_tag).
- You can also use " * " at the beginning, end, or in the middle of your search term to refine the results according to your needs.

2.4 Handling curves

Pré-requis : be in the Curves menu of Indaba Explorer.

Select the metric(s) you want to display.

The curve is displayed in the centre of the page.

🐞 io-base		📈 Chart	E Metrics			🕐 EN	
Documentation - Q	Custo	om v	Begining date 2025-01-02 03:33:42	Ending date 2025-01-02 06:20:10	Refresh (s)	C	• • •
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Compresseur 1						<u></u>	۹ 🖌 🖬
i) nj26uv_nexobc Θ	60			Δ Δ	Δ Δ	۸	
Pression ①					Λ Λ	$\Lambda \Lambda$	
1 Pressure	50						
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	03:40	04:00 04:20	04:40 •••• •• nj26uv_ne;	5:00 05:20 xobc (*ce)	05:40	06:00	06:20

To optimize the graph size, you can click on the **treeview** button to hide the treeview.

🐞 io-base		^	✓ Chart
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S Volume	\oplus	40	
Site 2			
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		20	

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Regining date Custom	Ending date 2025-01-02 06:20:10	Refresh (s)	C 🛊 🛯 🗖	Z
				<u>+ q q</u> 🧭 🖬
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2.4.1 Refreshing the values

In the top toolbar, you can set the values to automatically refresh and specify the time in seconds between updates



Note : if you switch windows in your browser, or change the start and end dates of the chart, automatic refresh is deactivated.

To refresh the data once, click on the highlighted button:



2.4.2 Configuration of the data period

You can change display period of the metric data. There are several possibilities:

- Last hour
- Last day
- Last month
- Last year
- Custom (enter the desired start and end dates)

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C SEARCH	Last hour Last day	Begining date 2025-01-02 03:33:42	Ending date 2025-01-02 06:2	20:10
50	Last week Last month Last year			\wedge
40	Custom			

The graph updates as soon as the period is selected.

When you are in a **Customised** period, you can navigate through time, using the **left** and **right** arrows.

🐞 io-base	✓ Chart	E Metrics	
Custom Custom 2025-01-02 03:33:	42 Ending date	Refresh (s)	• • • • •
60		$\land \land$	$\land \land \land$
50			

2.4.3 Zoom option

On the graph, at the top right, there are two buttons to Zoom in / Zoom out.

This allows you to change the start and end dates.



Note : when you click on the zoom buttons, the graph automatically switches to the **Customised** period.

2.4.4 Saving the displayed graph as an image

The button in the upper right corner allows you to save the graph currently on the screen as an image.



2.4.5 Viewing the values of the displayed curves

A button at the top right allows you to display the list of the displayed metrics values.

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nj26uv_nexobc 2025-01-02705.0319+0100 203 nj26uv_nexobc 2025-01-02105.0323+0100 21.14 nj26uv_nexobc 2025-01-02105.03.27+0100 20.25 nj26uv_nexobc 2025-01-02105.03.30+0100 19.38 nj26uv_nexobc 2025-01-02105.03.34+0100 18.52	Metric A nj26uv_nexobc nj26uv_nexobc	Date 2025-01-02705:02:36+01:00 2025-01-02705:02:39+01:00 2025-01-02705:02:39+01:00 2025-01-02705:02:47+01:00 2025-01-02705:02:50+01:00 2025-01-02705:02:54+01:00 2025-01-02705:02:54+01:00 2025-01-02705:02:54+01:00 2025-01-02705:02:58+01:00 2025-01-02705:03:05+01:00 2025-01-02705:03:05+01:00 2025-01-02705:03:05+01:00 2025-01-02705:03:05+01:00 2025-01-02705:03:05+01:00 2025-01-02705:03:05+01:00 2025-01-02705:03:05+01:00 2025-01-02705:03:05+01:00 2025-01-02705:03:05+01:00 2025-01-02705:03:05+01:00	Value 33.17 32.23 31.3 30.36 28.42 28.48 27.55 26.61 25.68 24.76 24.76 2.8.44	Export Excel
nj26uv_nexobc 2025-01-02105:03.23*0.00 21.4 nj26uv_nexobc 2025-01-02105:03.27*0.00 20.25 nj26uv_nexobc 2025-01-02105:03.30*0.00 19.38 nj26uv_nexobc 2025-01-02105:03.34*0.00 18.52	Metric ^ nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc	Date 2025-01-02705:02:38+01:00 2025-01-02705:02:39+01:00 2025-01-02705:02:43+01:00 2025-01-02705:02:47+01:00 2025-01-02705:02:54+01:00 2025-01-02705:02:54+01:00 2025-01-02705:02:54+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:03+01:00 2025-01-02705:03:03+01:00 2025-01-02705:03:03+01:00 2025-01-02705:03:03+01:00 2025-01-02705:03:03+01:00 2025-01-02705:03:03+01:00 2025-01-02705:03:03+01:00 2025-01-02705:03:03+01:00 2025-01-02705:03:03+01:00 2025-01-02705:03:03+01:00	Value 33.17 32.23 31.3 30.36 29.42 28.48 27.55 26.61 25.68 24.76 25.68 24.76 23.84 22.93	Export Excel
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nj26uv_nexobc 2026-01-02105:03:30+01:00 19.38 nj26uv_nexobc 2026-01-02105:03:34+01:00 18.52	Metric A nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc nj26uv_nexobc	Date 2025-01-02705:02:36+01:00 2025-01-02705:02:39+01:00 2025-01-02705:02:43+01:00 2025-01-02705:02:43+01:00 2025-01-02705:02:50+01:00 2025-01-02705:02:50+01:00 2025-01-02705:02:50+01:00 2025-01-02705:02:50+01:00 2025-01-02705:02:50+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00	Value 33.17 32.23 31.3 30.36 28.42 28.48 27.55 26.61 25.68 24.76 23.84 22.03 21.14	Export Excel
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	Motric ^ nj26uv_nexobc	Date 2025-01-02705:02:36+01:00 2025-01-02705:02:38+01:00 2025-01-02705:02:43+01:00 2025-01-02705:02:50+01:00 2025-01-02705:02:54+01:00 2025-01-02705:02:54+01:00 2025-01-02705:02:54+01:00 2025-01-02705:02:54+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:01+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:12+01:00 2025-01-02705:03:30+01:00 2025-01-02705:03:30+01:00	Value 33.17 32.23 31.3 30.36 22.42 28.48 27.55 26.61 25.65 26.61 25.84 22.93 22.03 21.14 20.25 19.38	Export Excel

Note : to return to the graph view, you can click on the



button.

EN TEREGO AN
~
Export Excel

You can export this data into an Excel file.

To do this, click the "**Export Excel**" button :

	EN TEREGA AN
C 💠 🔳 🗖	✓
	Export Excel
Value	
33.17	•

An Excel file containing the data shown on the graph is downloaded :

\sim	data (1).xlsx
Y	data (1).xlsx

Fichier Modifier Insérer Format Aide

А	В	С
metric	timestamp	value
nj26uv etat vanne elementaire	2024-09-16T13:11:09+02:00	77.25
ni26uv etat vanne elementaire	2024-09-16T13:11:12+02:00	-95.31
nj26uv etat vanne elementaire	2024-09-16T13:11:16+02:00	45.79
nj26uv etat vanne elementaire	2024-09-16T13:11:20+02:00	-59.32
nj26uv etat vanne elementaire	2024-09-16T13:11:23+02:00	-178.73
nj26uv etat vanne elementaire	2024-09-16T13:11:27+02:00	133.16
nj26uv etat vanne elementaire	2024-09-16T13:11:30+02:00	-63.29
nj26uv etat vanne elementaire	2024-09-16T13:11:34+02:00	47.39
ni26uv etat vanne elementaire	2024-09-16T13:11:38+02:00	41.02
ni26uv etat vanne elementaire	2024-09-16T13:11:41+02:00	114.11
nj26uv etat vanne elementaire	2024-09-16T13:11:45+02:00	-17.43
ni26uv etat vanne elementaire	2024-09-16T13:11:49+02:00	99.53
nj26uv etat vanne elementaire	2024-09-16T13:11:52+02:00	-48.93
nj26uv etat vanne elementaire	2024-09-16T13:11:56+02:00	92.26
ni26uv etat vanne elementaire	2024-09-16T13:12:00+02:00	14.56
ni26uv etat vanne elementaire	2024-09-16T13:12:03+02:00	109.66
ni26uv etat vanne elementaire	2024-09-16T13:12:07+02:00	-128.93
nj26uv etat vanne elementaire	2024-09-16T13:12:10+02:00	77.16
nj26uv etat vanne elementaire	2024-09-16T13:12:14+02:00	193.77
nj26uv etat vanne elementaire	2024-09-16T13:12:18+02:00	-130.53
nj26uv etat vanne elementaire	2024-09-16T13:12:21+02:00	59.24
nj26uv etat vanne elementaire	2024-09-16T13:12:25+02:00	-78.16
nj26uv_etat_vanne_elementaire	2024-09-16T13:12:29+02:00	-57.2
nj26uv_etat_vanne_elementaire	2024-09-16T13:12:32+02:00	-23.02
nj26uv_etat_vanne_elementaire	2024-09-16T13:12:36+02:00	160.2
nj26uv_etat_vanne_elementaire	2024-09-16T13:12:39+02:00	113.38
nj26uv_etat_vanne_elementaire	2024-09-16T13:12:43+02:00	82.84
nj26uv etat vanne elementaire	2024-09-16T13:12:47+02:00	-138.25
nj26uv etat vanne elementaire	2024-09-16T13:12:50+02:00	-144.11
ni26uv etat vanne elementaire	2024-09-16T13:12:54+02:00	17.73
nj26uv etat vanne elementaire	2024-09-16T13:12:58+02:00	183.2
ni26uv etat vanne elementaire	2024-09-16T13:13:01+02:00	13.27
nj26uv_etat_vanne_elementaire	2024-09-16T13:13:05+02:00	92.42
nj26uv_etat_vanne_elementaire	2024-09-16T13:13:08+02:00	-36.23
nj26uv_etat_vanne_elementaire	2024-09-16T13:13:12+02:00	-85.31
nj26uv_etat_vanne_elementaire	2024-09-16T13:13:16+02:00	-186.44
nj26uv_etat_vanne_elementaire	2024-09-16T13:13:19+02:00	118.75
nj26uv etat vanne elementaire	2024-09-16T13:13:23+02:00	185.67
ni26uv etat vanne elementaire	2024-09-16T13:13:27+02:00	-119.02
ni26uv etat vanne elementaire	2024-09-16T13:13:30+02:00	-69.82
pi24uv etat venne elementaire	2024 00 16712:12:24:02:00	44.44

2.4.6 Configuration of curves

To access configuration of the curves, click on the following button :



The control panel is displayed. It contains 4 tabs:

- Charts
- Scales
- Thresholds

Once you have configured all the desired values, click on **Confirm all** configurations.

Chart settings						
		Charts	Scales	Thresholds		
Metric	Aggre	gation	Unit Co	blor	Shape	Actions
main@nj26uv_etat_vanne_elementaire	Automatic	•		Line	-	6 0 0
				Stairs 💶 In	terpoled	
						CANCEL CONFIRM ALL SETTINGS

Note : the confirm button saves the settings made on all the tabs of the control panel.

<u>2.4.6.1 Chart tab</u>

In this tab, you can make several changes to the configuration of your charts.

Chart settings					
	_	Charts	Scales	Thresholds	
Metric	Aggregation	Unit	Color	Shape	Actions
main@nj26uv_etat_vanne_elementaire	Automatic	•		Line Stairs Interpoled	60
					CANCEL CONFIRM ALL SETTINGS

- change the name of the displayed metric (this changes the legend)
- change the aggregation type : When you choose "**None**", the raw values will be displayed. When you choose "**Automatic**", the system optimises the display of the curve. If too many points are returned for the display, then an average aggregation will be automatically be applied to display the values.
- the colour of the curve on the graph
- the type of display
 - curve

- histogram
- scatter graph
- interpolated display (the curve is marked from point to point) or a stepped display

Example of an interpolated curve :



And the same curve as a stepped line graph :



In the **Actions** column, you can duplicate or delete a chart.

2.4.6.2 Filtering data

You can filter the data displayed on a chart.

To do so, in the **Actions** column, click on the arrow highlighted below :

Thresholds		
	Shape	Actions
Line	•	
Stairs 🥌	Interpoled	
Line	•	
Stairs 🥌	Interpoled	
		CANCEL CONFIRM ALL SETTING

An input field appears below the metric name, allowing you to specify the data filter to apply :

Chart settings

		Charts	Sc	ales
letric	Aggrego	ation	Unit	Color
1ain@nj26uv_nexobc	Automatic	•	°ce	
Options				
Data filtering				
Display name nj26uv_nexobc	,			

To specify a data filter, you must follow the syntax below :

- The data will be named 'value'.
- The allowed operators are: \rangle , \rangle =, \langle , \langle =, +, *, /, (,), AND, OR. •

For example, if you only want to display the data greater than 20, you need to enter:

value > 20 Metric Aggregation main@nj26uv_nexobc Automatic Options Data filtering ? value>20 Display name nj26uv_nexobc

Another example, if you only want to display the values between 20 and 60, you need to enter :

value > 20 and value < 60

Once your filter is entered, click on "Confirm all settings".

Scales	Thresholds	
Color	Shape	Actions
	Line	
	Stairs 🥌 Interpoled	
	Line	00
	Stairs 🥌 Interpoled	
		CANCEL CONFIRM ALL SETTINGS

Only the metric values between 20 and 60 will be displayed in the chart.

Note : If there is an incorrect entry, the configuration will not be validated, and the following error message will appear :

Metric main@nj26uv_nexobc Aut	Aggregation	Unit	Color Shape	Actions
nain@nj26uv_nexobc Aut	tomatic 🔹	800	_	
		00	Stairs Contempolee	d
Options Data fittering value > • Display nome nj26uv_nexobc				
nain@nj26uv_nexobc Aut	tomatic •	°ce	Line Stairs 🥌 Interpoleo	Č 🕲 🕤

2.4.6.3 Scales tab

Chart settings					
		Charts	Scales Thresholds		
Unit	Min	Μαχ	Step	Margin (%)	Default
т	-193.39	194.83	77.644	10	8
				CANCEL	CONFIRM ALL SETTINGS

In this tab, you can set the minimum and maximum values that you want to display on the chart. Therefore you can hide part of the curve :

Before configuring the values :



Configured values : Min= 10 and Max=30



Note : If you want to set 0 as the minimum value, you will need to set a margin value greater than 0.

The **Step** field allows you to choose the interval between the marks on the y-axis. For example, the previous curve with a "**Step**" of 2 :



The cross button allows you to return to the initial configuration



2.4.6.4 Threshold tab

Chart settings					
	Charts	Scales	Thresholds		
Axe T					0 🗸
				CANCEL	CONFIRM ALL SETTINGS

In this tab, you can set thresholds that will be displayed on your graph.

By default, there is no threshold.

Click on the **New threshold** button :

Charte Scales Thresholds	
	+ NEW THRESHOLD
	CANCEL CONFIRM ALL SETTINGS

Configuration fields will appear, allowing you to define the new threshold.

Start by selecting the axis for which you want to create a threshold.

Chart settings					
	Charts	Scales	Thresholds	_	
					+ NEW THRESHOLD
Axe without na Position * Name *] —	
				CANCEL	CONFIRM ALL SETTINGS

Name your threshold :

Chart settings				
		Charts	Scales	Thresholds
Axe without na	*			

Then, indicate the position where you would like the threshold label to appear on your chart:



• at the beginning :

• in the middle :



• in the end :



You can then configure the definition of your threshold by clicking on the button representing the threshold :

Chart settings

	Charts	Scales	Thresholds	
Axe without na Position * doc			[=

Specify :

• dotted or straight line :



• threshold position : horizontal or vertical





• **Threshold value** : the value where the threshold line will be drawn Example below with the value "30" :

]			
	Dotted	•	c
	Horizontal	•	
ľ		30	



Once all the settings are complete, click on "Confirm all settings".

	+ NEW THRESHOLD
CANCEL	CONFIRM ALL SETTINGS

2.4.7 Graph reset

To reset the graph (reset of periods and deletion of selected metrics), use the **Bin** button :





2.5 Annotating values

In Indaba Explorer, you can create annotations for a specific value of a metric.

In other words, you can add comments to explain a value.

The feature is available for every user, as long as they have read rights on the metric they wish to comment on.

2.5.1 Accessing the value annotations

Access Indaba Explorer from the Io-base portal.

🐞 io-base	✓ Chart	E Metrics
C SEARCH		

Display the chart for a metric.



In the settings, activate the **Annotations** option.



Note: You can deactivate the Annotation mode at any time by clicking the button again.

2.5.2 Create an annotation

To create an annotation, you must double click on this value directly from the curve.

Warning, the **Annotation mode** must be activated in order to create an annotation.

By double clicking on a point of the curve, a window is displayed, allowing you to type your comment.

Add an annotation	Edit the value	
Metric		
main@nj26uv_nexobc		
Timestamp	Value	
2025-01-03 07:41:32	58.74	°ce
Message *		
		1.
		0/250
	CANCEL	SAVE

The metric, as well as the timestamp and the value are not editable.

Type your message, then click on **Save**.

	📈 Chart	🖽 Metr	ics		🕐 EN	TER	
:43	Ending date 2025-01-0	3 07:57:01	> Refresh (s)	2 4 1			Z
					± ℚ	Q	<u>~</u> m
\cap							

The message is saved. An icon appears on the curve to indicate that a message exists.

2.5.3 Viewing the annotations of a point

The annotations are visible by hovering the mouse over the curve.

Ending date 2025-01-03 07:57:01	Refresh (s)	C	\$	
	0	<u>∔</u> ©	Q	<u>~</u> T
	2025-01- • nj26uv Annotatio Doc	.03 07:41:32 '_nexobc 58.7 on :	4 °ce	

For a complete view of the annotation, click on

Anr	notation list - mai	in@nj26uv_	nexobc - 2025-0	1-03 07:41:32.000	0	•
Au	uthor		Date	Message	Actions	
A	ndré Matos Calhau		2025-01-03 08:57:04	Doc	00	
					ок	

It is possible to create several different annotations for the same point. Annotations can be created by different users for the same point.

2.5.4 Editing and deleting an annotation

Each user can modify and delete their own annotations. However, you cannot delete the annotation of another user.

To edit or delete an annotation, click on the edit button :

\bigwedge	\bigwedge	\wedge	(
Annotation list - main@nj	26uv_nexobc - 2025-01·	-03 07:41:32.00	00
Author	Date	Message	Actions
André Matos Calhau	2025-01-03 08:57:04	Doc	00
			ок

2.6 Correct a value

Prerequisites:

- Have a sufficient role to be able to modify the value of a metric (Writer).
- Have **Read/Write** authorizations on the metric for which you want to correct the value.

Log in to **Io-base** and access **Indaba Explorer**.

You have the option to correct the value of a data point on the chart.



First, select the metric for which you want to correct a value.

Then, click on the **Display annotations / correct a value** button.

⊞	Metrics		🥐 EN Те	
7:57:01	Refresh (s)	c 🏟 🔳 🗖		2
			<u>+</u> ତ୍ ଦ୍	~ m

Select the data point for which you want to make a correction.

A pop-up window opens, go to the **Edit the value** tab.

Add an annotation	Edit the value	
Metric		
Timostamp	Value	
2025-01-03 07:41:32	58.74	°ce
Message *		
		h
		0/250
	CANCEL	SAVE

Provide the new value.

Optionally, you can add a comment.

Metric		
main@nj26uv_nexobo	C	
Timestamp	Value	
2025-01-03 07:41:32	58.74	°ce
New value *		
60		°ce
60 A message will be auto	o-generated with the old and	°ce new values.
60 A message will be auto You can add an option	o-generated with the old and al comment.	°ce new values.
60 A message will be auto You can add an option - Message Documentation	o-generated with the old and al comment.	°ce new values.

Click on **Save**.

The correction has now been applied.

An annotation is automatically generated to keep track of value corrections for a point.



Note : The **Message** column starts with an automatically returned value correction message, followed by an optional comment, in this case, "Documentation'."

Note : You can make multiple corrections on a data point.

2.7 Making data predictions

You can make data predictions directly from Explorer. This feature allows you to compare predicted values with actual values to detect potential anomalies in your data or predict when values will cross a specific threshold.

Warning : The data prediction feature is effective only for curves that show cyclical behavior over a fixed period. For non-cyclical curves, its use will not be appropriate and may produce unreliable results.

Connect to Io-base and access the Indaba Explorer menu.

Your prediction will be based on the data for the period selected for the displayed curve.



Make sure to select the period you want to use as a reference.

		Interval			 Begining date 		Ending date			Refresh (s) —	
•7	Q SEARCH	Custom	-	<	2025-01-06 08:21:48	Ē	2025-01-06 09:28:10	Ē	>	10	

Once your curve is displayed, click on the gear icon located at the top right of your screen.

• io-base			≁ Chart		Metrics			P EN	те
Q SEARCH	Custom	*	Begining date 2025-01-06 08:21:48	Ē	Ending date 2025-01-06 09:28:10	efresh (s)	C 🔷		
								<u></u> € €	ία

Start by duplicating the selected metric, so you can compare the curve of actual data with that of predicted data.

Chart settings		<i></i>				
	Ch	narts	Scal	les	Thresholds	
Metric	Aggregation		Unit	Color	Shap	pe Actions
main@nj26uv_nexobc	None	•	°ce		Line Stairs 🛑 Interpoled	

		Charts	Sco	iles	Thresholds	
Metric	Aggregation		Unit	Color	Shape	Actions
main@nj26uv_nexobc	None	•	°Ce		Line Stairs Interpoled	6 0
main@nj26uv_nexobc	None	•	°ce		Line	6 6 0

Next, select the "Holt-Winters" aggregation for the duplicated metric.

	Charts	Scal	es	Thresholds	
tric	Aggregation	Unit	Color	Shape	Actions
ain@nj26uv_nexobc	None	°ce		Line Stairs Interpoled	6 0
ain@nj26uv_nexobc	Holt-Winters	· · ce		Line Line Line	6 6
Holt-Winters configuration Pattern Points 1 50	Options Data filtering				
Offset 0 d 0 h 0 m 0 :	Display nome prévision				
🗌 Full display					

Several parameters will appear to configure your prediction:

	. nevela	Holt-Winters
nain@nj26u	v_nexobc	0 d 0 h 0 m 0 s
Holt-Wint	ers configuration	Options
Pattern 1	Points 50	Data filtering
Offset	0 d 0 h 0 m 0 s	Display name prévision
🗌 Full di	splay	

To fill them out, observe the curve on which your prediction will be based :

• First parameter:

	Holt-Winters	•
main@nj26uv_nexobc	0 d 0 h 0 m 0 s	
Holt-Winters configuration	Options	

Observe the curve on which the predictions are based and identify a trend. In our example, we observe the following trend :



Next, identify the significant points of this trend. In our example, the following points are noted :



Observe the times at which these points occur and calculate the difference (in duration) between these two times.

In our example, the first significant point of the trend occurs at 09:14:04 and the last significant point of the trend occurs at 09:19:49, which results in a difference of 00:05:45 (5 minutes and 45 seconds).

Therefore, enter "5 minutes and 45 seconds" for this first parameter.

main@pi26uv_poyobo	Holt-W	Vinte	rs				-
main@nj2ouv_nexobc		0	d 0	h 5	m 45	S	

• "Pattern" parameter:

Holt-Winte	ers configuration
Pattern 1	Points 10
Offset	0 d 0 h 0 m 0 s
🗌 Full dis	play

We observe that in each iteration of the trend, there are two points of variation.



The pattern parameter will thus be set to 2.



• **"Points" parameter :** This parameter specifies the number of points you want to generate in the prediction.

Pattern Points 2 500	Holt-Winter	s configuratio	n
	Pattern 2	Points 500	

Note: The maximum number of predicted points is limited to 1000.

• "Offset" parameter :

As previously mentioned, the prediction model will be based on the data displayed in the curve.

To ensure the model is accurately predicted, position yourself at the beginning of a trend cycle.



When the value at the beginning of the curve does not correspond to the start of the cycle, you can use the offset parameter to adjust the selected period on the graph to the start of the cycle.

For example, imagine the displayed curve looks like this :



We see that the beginning of the curve does not match the start of a cycle

:



We would like the curve to start at the point marked below (start of the cycle) :



Simply look at the date when the cycle start point occurs and calculate the difference with the current start date of the curve :



09:19:49 - 09:16:54 = 00:03:05

You would then enter "00:03:05" for the offset parameter to ensure the curve starts at the beginning of a cycle.

Pattern	Points			
2	500			
Offset	0 d 0	h 3	m 05	s

After completing this configuration, click on "Apply all settings." Your prediction curve (highlighted below) will be displayed :



If you want to overlay the prediction curve on your actual data curve, return to the configuration screen and check the "Full Display" box :

Pattern	Points
2	500
Offset	0 d 0 h 3 m 5

For more details, refer to the Influx documentation :

https://docs.influxdata.com/enterprise_influxdb/v1/query_language/functions/# holt_winters

3. Metrics

3.1 Access the metrics menu

Run the Indaba Explorer application (available on the portal).

In the left-hand menu, click on **Metrics**.

🐞 io-base E Metrics 📈 Chart Interval Begining date Ending date Т Q SEARCH > < 2025-01-06 09:28:10 Custom -2025-01-06 08:21:48 60 50 40

On this screen, you will be able to view the latest metric values.

io-base	📈 Chart		Metrics
C search			
Tag	Value	Unit	Timestamp
nj26uv_nexobc	54.46	°ce	2025-01-06 09:59:59

3.2 Viewing metrics

Open the Indaba Explorer application, then click on the Metrics menu.

🐞 io-base	≁ Chart	🖽 Metrics		
Q search				
Tag		Value	Unit	Timestamp
nj26uv_temperature_garderie		111.99		2025-03-03 10:00:38

On this screen, you can view the values of the tags that populate your repositories.

To search for a metric, click on the search button :



The usual search metric window opens :

SEARCH METRIC

nj26uv_temperature_garderie ⊝				
	By metric	By metadata		
Datasource Metric name	Description	Unit		
Metric	Description		Unit	Action
indabox_test_int_modbus_ireg214_0			Unit	\oplus
modbus_int_int0			Unit	\oplus
cip_int_170			Unit	\oplus
modbus_int_40103h			Unit	\oplus
nj26uv_taux_humidite_sortie_silot1			Unit	\oplus
indabox_indabox_test_int_indus_erevpi_status		Unit	\oplus	
indabox_test_int_modbus1_reg1		Unit	Ð	

To select the desired metric, click on the "+" button.

SEARCH METRIC

SELECT X

	By metric	By meta	data			
nj26uv_etat_vanne_garderie		main	tester		test	\oplus
nj26uv_etat_vanne_maternelle		main			test	\oplus
nj26uv_index_compteur_elec		main			test	\oplus
nj26uv_index_compteur_gaz		main			test	\oplus
nj26uv_taux_humidite_elementaire		main			test	\oplus
nj26uv_taux_humidite_garderie		main		testl	test	\oplus
nj26uv_taux_humidite_maternelle		main			test	\oplus
nj26uv_temperature_elementaire		main		°C	test	\oplus
nj26uv_temperature_garderie		main			test	\oplus
nj26uv_temperature_maternelle		main			test	\oplus
nj26uv_temperature_tuyau_elementaire		main			test	\oplus

SELECT X

The selected metrics appear at the top of the window :

SEARCH METRIC

nj26uv_temperature_elem	nentaire 🔾 nj26uv_tau	x_humidite_maternelle		
		By metric	By m	etadata
nj26uv_etat_vanne_gard	lerie		main	tester
nj26uv_etat_vanne_mat	ernelle		main	
nj26uv_index_compteur_	_elec		main	
nj26uv_index_compteur	_gaz		main	

Click on "Select" to confirm the selection :

SEARCH METRIC Imaternelle O By metric Main tester test Main test main test Test

The selected metrics are displayed, you can view the last value retrieved by a metric :

🐞 io-base	📈 Chart	Metrics	
C SEARCH			
Tag		Value	Unit
nj26uv_temperature_elementaire		16	°C
nj26uv_taux_humidite_maternelle		117.52	