

How do Bi-conditional Alerts for Meters work in Fractal One?

help.fractal.com/hc/en-us/articles/41498503827981-How-do-Bi-conditional-Alerts-for-Meters-work-in-Fractal-One

The **bi-conditional alerts** are designed to improve monitoring accuracy, ensuring that alerts are only triggered by real deviations.

A bi-conditional alert is generated only when **two mandatory validations** are met:

- The meter reports a value outside the established range.
- That value remains constant outside the range for a specified minimum time.

Enabled ☒

When the event meets these conditions :

☐ Without conditions ☐ At least one is true ☒ All be true

Terms	Operation	Value
On/Off Meter Reading	Is equal to	1 durante 5 minutos
Meter Reading	Greater than	60

This helps reduce false alerts caused by common fluctuations in equipment.

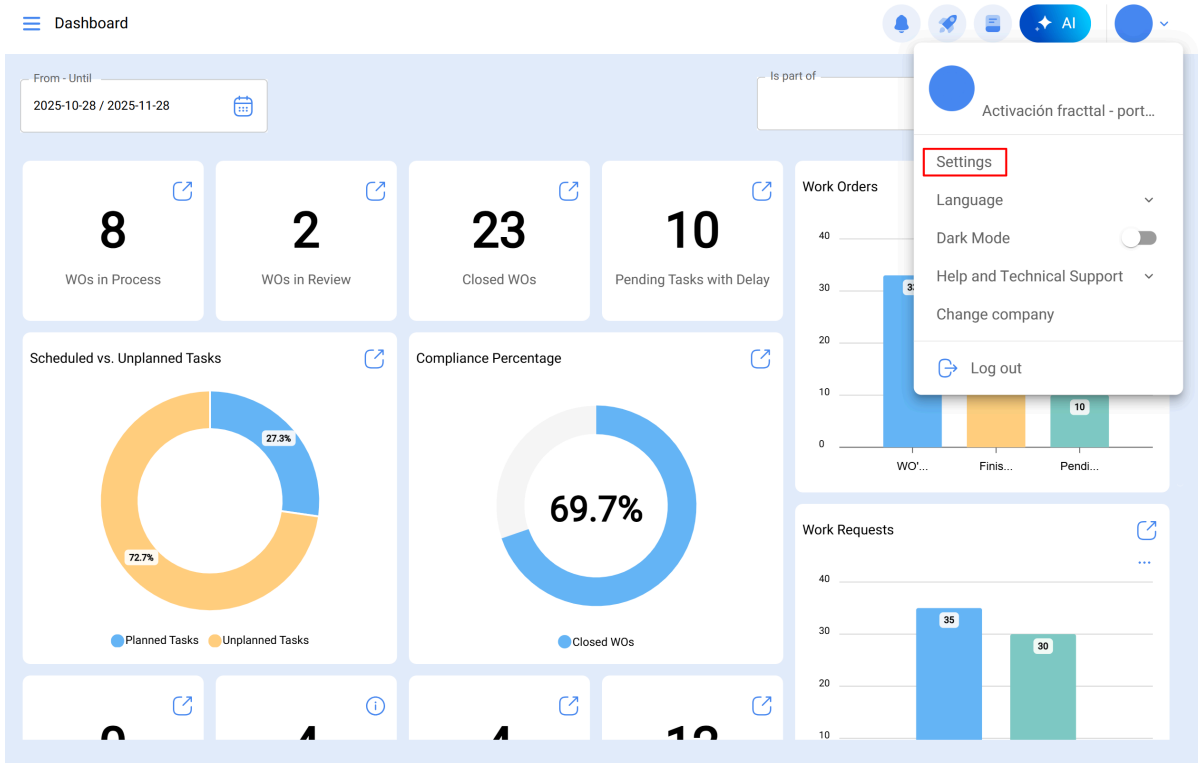
The complete process includes:

1. **Create a unit in auxiliary catalogs.**
2. **Configure the two required meters.**
3. **Set up the automator with the bi-conditional conditions.**
4. **Define the action to execute when both conditions are true.**

How to create a unit in Auxiliary Catalogs

To use custom units in meters, you must first create them in the Auxiliary Catalogs.

1. Go to **Settings**.



2. Select **Auxiliary Catalogs**.

The screenshot shows the 'Settings' page with the 'Auxiliary Catalogs' section selected in the left sidebar. The main area displays a table of units with columns for Description, Code, and Unit type. A red arrow points to the 'Auxiliary Catalogs' option in the sidebar.

Description	Code	Unit type
002811-jc	002811-jc	On/Off
APROVADO/FALHOU	1,2	Number
CARGA DO MOTOR (FU %)	%	Number
COMPRIMENTO	m	Number
CORRENTE ELÉTRICA	A	Number
CORRENTE (IN)	IN	Number
CORRENTE MOTOR (IT)	IT	Number
CORRENTE NOMINAL	IN	Number

3. Choose the **Unit** type.

Settings

Activación fractal - portugues br - 2819

General

User Accounts

Business Calendar

Modules

Financial

Auxiliary Catalogs

Document Management

Transactions Log

Security

API Connections

Guest Portal

Account

Type

Unit

Unit

Unit type

Description ↑	Code	Unit type
002811-jc	002811-jc	On/Off
APROVADO/FALHOU	1,2	Number
CARGA DO MOTOR (FU %)	%	Number
COMPRIMENTO	m	Number
CORRENTE ELÉTRICA	A	Number
CORRENTE (IN)	IN	Number
CORRENTE MOTOR (IT)	IT	Number
CORRENTE NOMINAL	IN	Number

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+

Save

4. Click **Add unit**.

Settings

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Account

Type

Unit

Unit

Unit type

Description ↑	Code	Unit type
002811-jc	002811-jc	On/Off
APROVADO/FALHOU	1,2	Number
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COMPRIMENTO	m	Number
CORRENTE ELÉTRICA	A	Number
CORRENTE (IN)	IN	Number
CORRENTE MOTOR (IT)	IT	Number
CORRENTE NOMINAL	IN	Number

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+

Save

5. Enter the **description** and the **code** of the unit. In **unit type**, select **On/Off**.

The screenshot shows the 'Unit' configuration form in the 'Auxiliary Catalogs' section. The form is empty, with fields for Description, Code, and Unit type. Red error messages indicate that these fields cannot be blank.

Settings

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General

User Accounts

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Modules

Financial

Auxiliary Catalogs

Document Management

Transactions Log

Security

API Connections

Guest Portal

Account

Type

Unit

Description

Description can't be blank

Code

Code can't be blank

Unit type

Unit type can't be blank

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6. Save the changes.

The screenshot shows the 'Unit' configuration form in the 'Auxiliary Catalogs' section. The form is filled with the following values: Description: 002811-jc, Code: 002811-jc, Unit type: On/Off. A red checkmark icon is visible in the top right corner, indicating that the changes have been saved.

Settings

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General

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Account

Type

Unit

Description

002811-jc

Code

002811-jc

Unit type

On/Off

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How to create meters?

After creating the unit in the auxiliary catalogs, the next step is to configure the meters that will use it. For this functionality, it is necessary to create two meters for each variable, ensuring that at least one of them is digital (On/Off).

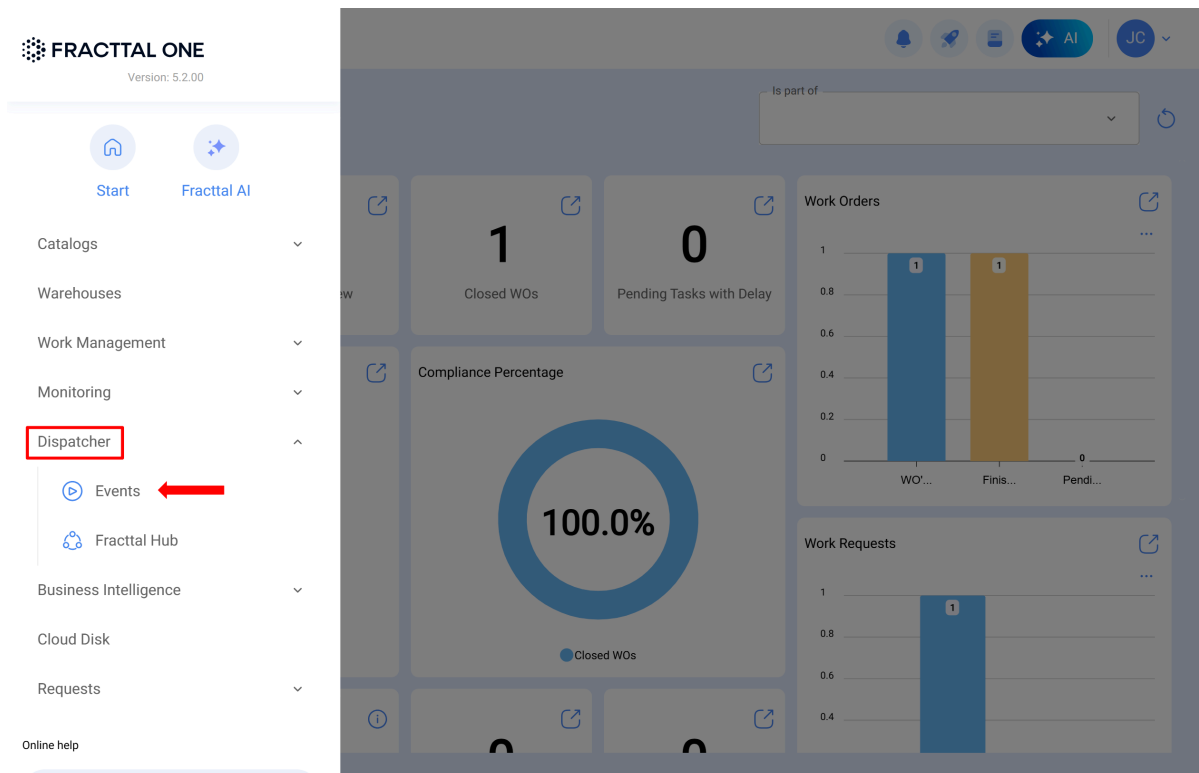
Check the following article for more details on creating meters in Fractal One: [How to create a new meter?](#)

Once the necessary meters are configured, you can create the automator that will evaluate both conditions simultaneously.

Note: This functionality does not allow accumulator meters.

1. Create a new automator

1. Access the **Automator** module and open the **Events** section.



2. Click **Add automator**.

Dispatcher

Search...

AI JC

	Description	Module	Submodule	Event
<input type="checkbox"/>				
<input type="checkbox"/>	NUEVA OT > WSP RAMON	Work Management	Work Orders	New WO
<input type="checkbox"/>	ohla ejemplo	Work Management	Work Orders	Work order completed

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+

3. In **Module**, select **Monitoring**.

4. In **Submodule**, choose **Meters**.

5. In **Event**, select **Reading out of range**.

6. Enter a description that clearly identifies the automator's function.

7. Save the changes.

Dispatcher

002811- bicondicional

Save

Enabled

Information
You have pending changes to save!

General

Terms

Actions

Module

Monitoring

Submodule

Meters

Event

Out of range reading

Description

002811- bicondicional

2. Configure the bi-conditional conditions

Select the option **All are true**, since both conditions must be met to trigger the alert.

Dispatcher

002811- bicondicional

Save

Enabled

General

Terms

Actions

When the event meets these conditions :

☐ Without conditions

☐ At least one is true

☒ All be true

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Condition 1 – Remaining out of range

- **When:** Meter reading (On/Off)
- **Meter:** Select the previously created meter
- **Operation:** Select the option **Is equal to**
- **Value:** Enter the corresponding value
- **During:** Minimum time the door remains open or the state stays active

Dispatcher

← 002811- bicondicional

Enabled ☒

When the event meets these conditions :

☐ Without conditions ☐ At least one is true ☒ All are true

General

Terms

Actions

Showing 1 of 1

Edit Terms

When
On/Off Meter Reading

Meter
002811-jc

Operation
Is equal to

Value
1

During
5

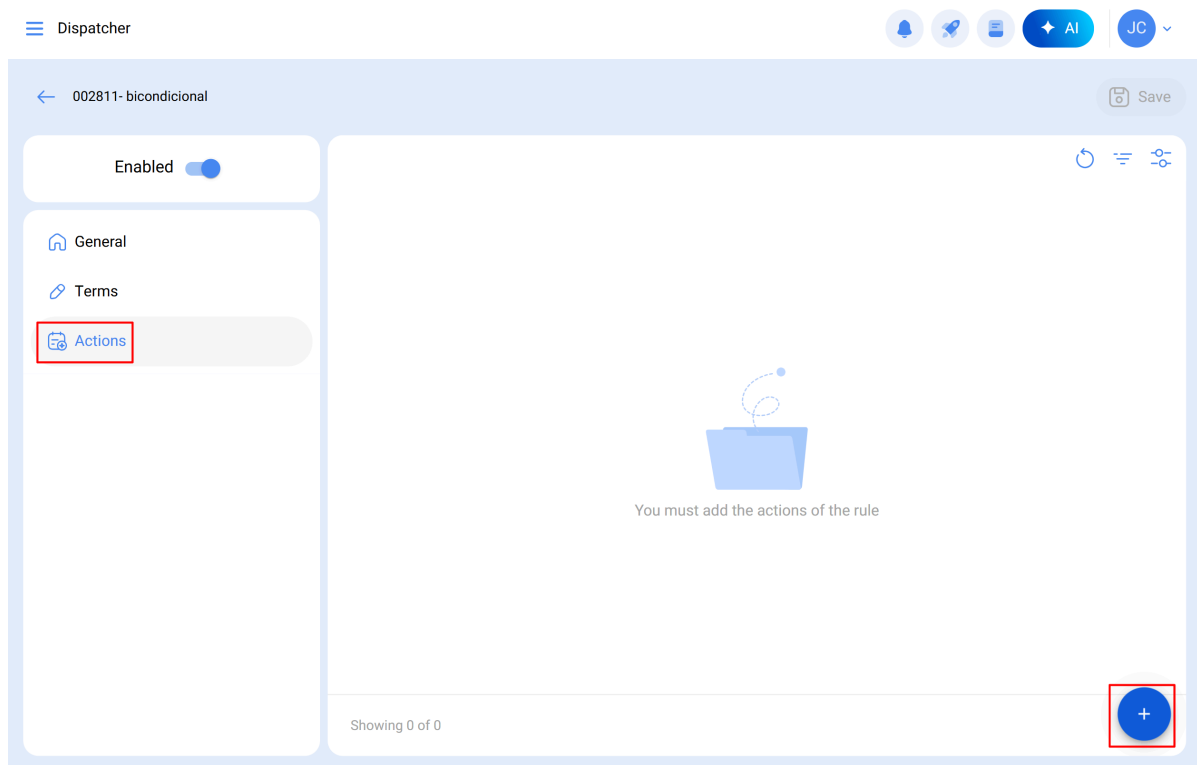
This condition checks the continuity of the out-of-range state for a minimum period.

Condition 2 – Value over the allowed limit

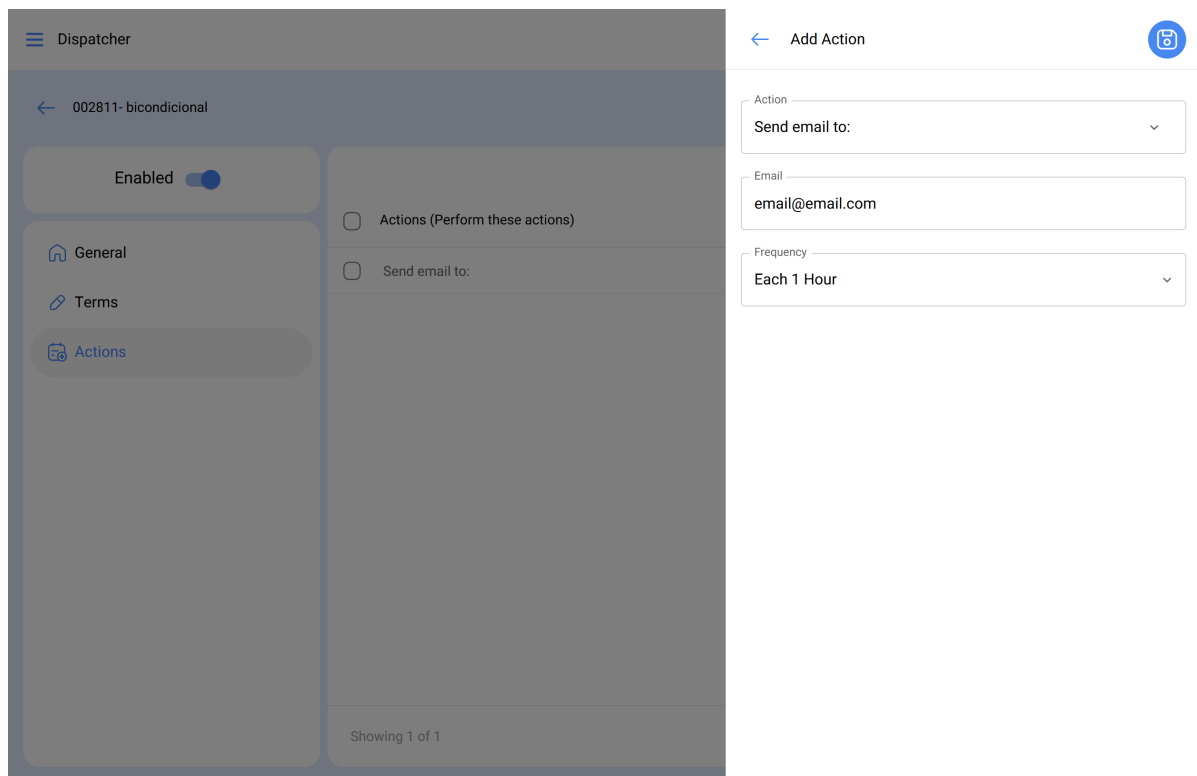
- **When:** Meter reading
- **Meter:** Select the second previously configured digital meter
- **Operation:** Select the option **Greater than**
- **Value:** Enter the corresponding limit value (for example, X degrees)

Action: Email notification

1. In **Actions**, select **Send email**.



2. Enter the email address that will receive the alert.



3. Save the automator.

Dispatcher

← 002811- bicondicional

Enabled ☒

General

Terms

Actions

☐ Actions (Perform these actions)

☐ Send email to:

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← Add Action

Action

Send email to:

▼

Email

email@email.com

Frequency

Each 1 Hour

▼