

# Nautel NVIt Quick Troubleshooting




# Identifikasi Kerusakan

Identifikasi Kerusakan bisa dimulai dari :

1. Melihat Alarm warna Led pada panel depan / lewat remote AUI di menu transmitter Status
2. Melihat Log dan copy log AUI
3. Melihat Critical Parameter pada menu User setting AUI

## Login AUI

### Login




Connected to 10.10.10.2:3502  
Please enter a username and password.

Language

User

Password





## Date &amp; Time

Wed Jun 15 2022

10:47:47

Scheduler: Off

## Transmitter

0 kW

FM

91.20 MHz

Reflected

0 W

Set Point

4.05 kW

Preset: Preset 1

## Exciter

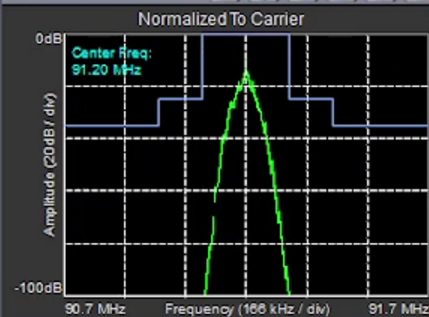
Active Exciter

A

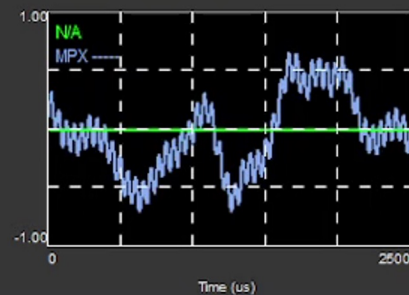
FM Modulation

0 % 113.8 % 100% 160 %

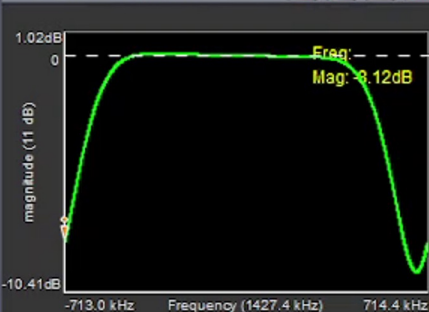
## Spectrum



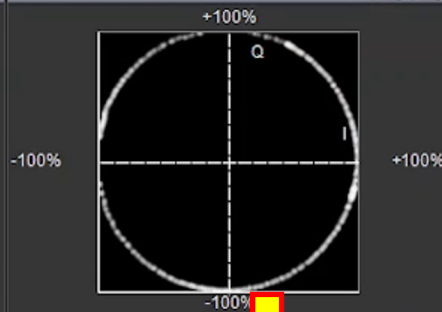
## Oscilloscope



## EQ Frequency Response



## Lissajous Plot



## Meters

RF On

RF Off

Logged in as: Nautel

Menu

Status

Logs

Local

Remote

Reset

Log  
Out



Date &amp; Time

Wed Jun 15 2022

10:47:52

Scheduler: Off

Transmitter

0 kW

FM

91.20 MHz

Reflected

0 W

Set Point

4.05 kW

Preset: Preset 1

Exciter

Active Exciter

A

FM Modulation

0 %

85.49 %

100%

160 %

## Transmitter Log



### Log Manager

411 Matches Sorted by Time of Event

Page 1/5

Device	Event	State	Severity	Time of Event
Controller	Remote Enabled	Remote		Wed Jun 15 2022 10:40:14 670ms
Controller	Host Network Down			Wed Jun 15 2022 10:35:08 450ms
Controller	Host Network Down			Wed Jun 15 2022 10:34:57 850ms
Controller	Active Preset Index	1		Wed Jun 15 2022 10:33:15 610ms
Controller	Active Preset Index	1		Mon Jun 13 2022 19:16:37 510ms
Exciter A	Audio Processor Offline			Mon Jun 13 2022 18:27:24 910ms
Controller	Host Network Down			Mon Jun 13 2022 18:27:09 230ms
Controller	Host Network Down			Mon Jun 13 2022 18:27:07 670ms
Exciter A	MPX Audio Low			Mon Jun 13 2022 18:26:31 670ms
Controller	Rebooted Exciter			Mon Jun 13 2022 18:26:29 430ms
Controller	Turn On Delay			Mon Jun 13 2022 18:26:25 510ms
Controller	Turn On Delay			Mon Jun 13 2022 18:26:24 910ms

RF On

RF Off

Logged in as: Nautel

Menu

Status

Logs

Local

Remote

Reset

Log Out



Date &amp; Time

Wed Jun 15 2022

10:47:55

Scheduler: Off

Transmitter

0 kW

FM

91.20 MHz

Reflected

0 W

Set Point

4.05 kW

Preset: Preset 1

Exciter

Active Exciter

A

FM Modulation

0 % 102.0 % 100% 160 %

## Transmitter Log



Log Manager



411 Matches Sorted by Time of Event

Page 1/5

Device	Event	State	Severity	Time of Event
Controller	Remote Enabled	Remote	Warning	Wed Jun 15 2022 10:40:14 670ms
Controller	Host Network Down	Success	Warning	Wed Jun 15 2022 10:35:08 450ms
Controller	Host Network Down	Failure	Warning	Wed Jun 15 2022 10:34:57 850ms
Controller	Active Preset Index	1	Warning	Wed Jun 15 2022 10:33:15 610ms
Controller	Active Preset Index	1	Warning	Mon Jun 13 2022 19:16:37 510ms
Exciter A	Audio Processor Offline	Failure	Warning	Mon Jun 13 2022 18:27:24 910ms
Controller	Host Network Down	Success	Warning	Mon Jun 13 2022 18:27:09 230ms
Controller	Host Network Down	Failure	Warning	Mon Jun 13 2022 18:27:07 670ms
Exciter A	MPX Audio Low	Failure	Warning	Mon Jun 13 2022 18:26:31 670ms
Controller	Rebooted Exciter	Success	Warning	Mon Jun 13 2022 18:26:29 430ms
Controller	Turn On Delay	Success	Warning	Mon Jun 13 2022 18:26:25 510ms
Controller	Turn On Delay	Failure	Warning	Mon Jun 13 2022 18:26:24 910ms

RF On

RF Off

Logged in as: Nautel

Menu

Status

Logs

Local

Remote

Reset

Log Out



## Date &amp; Time

Wed Jun 15 2022

10:47:58

Scheduler: Off

## Transmitter

0 kW

FM

91.20 MHz

Reflected

0 W

Set Point

4.05 kW

Preset: Preset 1

## Exciter

Active Exciter

A

FM Modulation

0 %

85.85 %

100 %

160 %

## Transmitter Log

## Log Manager

Filter Logs

Copy Logs

Delete

Statistics

Legend

Device

Select a Device

 Get Next Batch Filter by Date Select All

From:

Jun

15

2022

10

47

To:

Jun

15

2022

10

47

OK

Cancel

Controller

Turn On Delay



Mon Jun 13 2022 18:26:24 910ms

RF On

RF Off

Logged in as: Nautel

Menu

Status

Logs

Local

Remote

Reset

Log Out



## Date &amp; Time

Wed Jun 15 2022

10:48:04

Scheduler: Off

## Transmitter

0 kW

FM

91.20 MHz

Reflected

0 W

Set Point

4.05 kW

Preset: Preset 1

## Exciter

Active Exciter

A

FM Modulation

0 %

113.6 %

100%

160 %

## Transmitter Log

## Log Manager

Filter Logs

Copy Logs

Delete

Statistics

Legend

Logs copied to clipboard, paste the result into a program such as a word processor or spreadsheet

OK

Cancel

Controller

Turn On Delay



Mon Jun 13 2022 18:26:24 910ms

RF On

RF Off

Logged in as: Nautel

Menu

Status

Logs

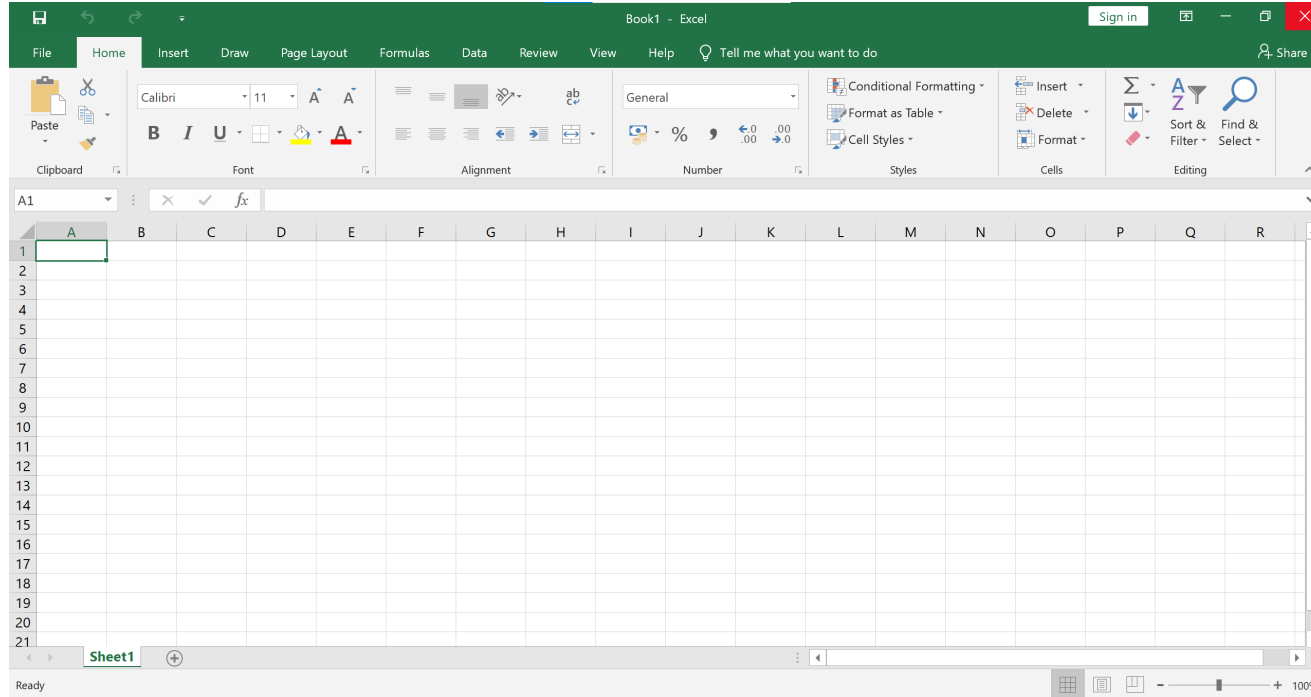
Local

Remote

Reset

Log Out

# Paste ke Microsoft Excel



# Capture Critical parameter

Pada Menu ini kita bisa capture dan copy seluruh pembacaan metering pada Nautel dan menyimpannya dalam excel

Capture Meter

Capture Alarm

Capture Preset

Capture Szttng



Date &amp; Time

Wed Jun 15 2022

10:49:03

Scheduler: Off

Transmitter

0 kW

FM

91.20 MHz

Reflected

0 W

Set Point

4.05 kW

Preset: Preset 1

Exciter

Active Exciter

A

FM Modulation

0 %

131.6 %

100%

160 %

Transmitter

Main Menu



Home



Presets



User Settings



User Accounts



System Settings



I/O

Remote I/O



Scheduler



Audio Player

orban  
INSIDE

Audio Processor

Log Manager

411 Matches Sorted by

Device	Event
Controller	Re
Controller	Hos
Controller	Hos
Controller	Acti
Controller	Acti
Exciter A	Audio
Controller	Hos
Controller	Hos
Exciter A	M
Controller	Re
Controller	T
Controller	T



Page 1/5

0:40:14 670ms

0:35:08 450ms

0:34:57 850ms

0:33:15 610ms

9:16:37 510ms

8:27:24 910ms

8:27:09 230ms

8:27:07 670ms

8:26:31 670ms

8:26:29 430ms

8:26:25 510ms

8:26:24 910ms

RF On

RF Off

Logged in as: Nautel

Menu

Status

Logs

Local  
Remote

Reset

Log  
Out



## Date &amp; Time

Wed Jun 15 2022

10:49:06

Scheduler: Off

## Transmitter

0 kW

FM

91.20 MHz

Reflected

0 W

Set Point

4.05 kW

Preset: Preset 1

## Exciter

Active Exciter

A

FM Modulation

0 %

134.9 %

100 %

160 %

## User Settings



## Network Setup

Email Configuration

Notifications

Nautel Phone Home

SNMP Configuration

Critical Parameters

External 10MHz

Time Setup

NTP Servers

User Thresholds

Call Sign/ID

Turn-On Behaviour

## Network Setup

MAC Address

40:D8:55:01:90:DC

 DHCP Static IP

IP Address

10.10.10.2

Subnet Mask

255.255.255.0

Default Gateway

0.0.0.0

Default Nameserver

192.168.0.7

Alternate Nameserver

8.8.8.8

Port Number

3502

Status

Running

Apply

Cancel

RF On

RF Off

Logged in as: Nautel

Menu

Status

Logs

Local

Remote

Reset

Log  
Out



## Date &amp; Time

Wed Jun 15 2022

10:49:16

Scheduler: Off

## Transmitter

0 kW

FM

91.20 MHz

Reflected

0 W

Set Point

4.05 kW

Preset: Preset 1

## Exciter

Active Exciter

A

FM Modulation

0 %

113.2 %

100%

160 %

## User Settings



## Network Setup

Email Configuration

Notifications

Nautel Phone Home

SNMP Configuration

Critical Parameters

External 10MHz

Time Setup

NTP Servers

User Thresholds

Call Sign/ID

Turn-On Behaviour

## Critical Parameters

Capture Meters

Copy Meters

151 Meters Copied To clipboard

Capture Alarms

Copy Alarms

Capture Alarms button reads all active alarms.

Capture Preset

Copy Preset

Capture Preset button reads all current preset.

Capture Settings

Copy Settings

Capture Settings button reads current settings.

RF On

RF Off

Logged in as: Nautel

Menu

Status

Logs

Local

Remote

Reset

Log  
Out



## Date &amp; Time

Wed Jun 15 2022

10:49:16

Scheduler: Off

## Transmitter

0 kW

FM

91.20 MHz

Reflected

0 W

Set Point

4.05 kW

Preset: Preset 1

## Exciter

Active Exciter

A

FM Modulation

0 % 113.2 % 100% 160 %

## User Settings



## Network Setup

Email Configuration

Notifications

Nautel Phone Home

SNMP Configuration

Critical Parameters

External 10MHz

Time Setup

NTP Servers

User Thresholds

Call Sign/ID

Turn-On Behaviour

## Critical Parameters

Capture Meters

Copy Meters

Copied To clipboard

Capture Alarms

Copy Alarms

Capture Alarms button reads all active alarms.

Capture Preset

Copy Preset

Capture Preset button reads all current preset.

Capture Settings

Copy Settings

Capture Settings button reads current settings.

RF On

RF Off

Logged in as: Nautel

Menu

Status

Logs

Local

Remote

Reset

Log Out

# Paste ke excel dengan sheet yang berbeda

The screenshot shows the Microsoft Excel interface with the following data in the 'METERS' sheet:

Device Name	Meter Name	Value	Units
Model:	NV10LT		
Captured At:	Thu Jul 14 2022 04:19:55 PM		
Controller	CPLD Version	8.0.0.0	
Controller	Firmware Version	2.2.4.1	
Controller	Local/Remote	REMOTE	
Controller	RF On/Off	On	
Controller	Forward Power	6.46	kW
Controller	Reflected Power		1 W
Controller	VSWR	1.02	
Controller	DC Input Power	8.71	kW
Controller	DC-RF Efficiency	74.2	%
Controller	Average Active PA Power		446 W
Controller	Average PA Voltage	34.1	V
Controller	Total PA Current		256 A
Controller	Average PA Dissipation	98.9	W

# Terima kasih

