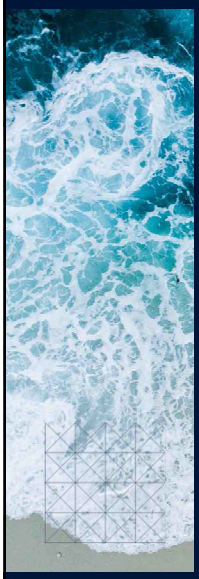

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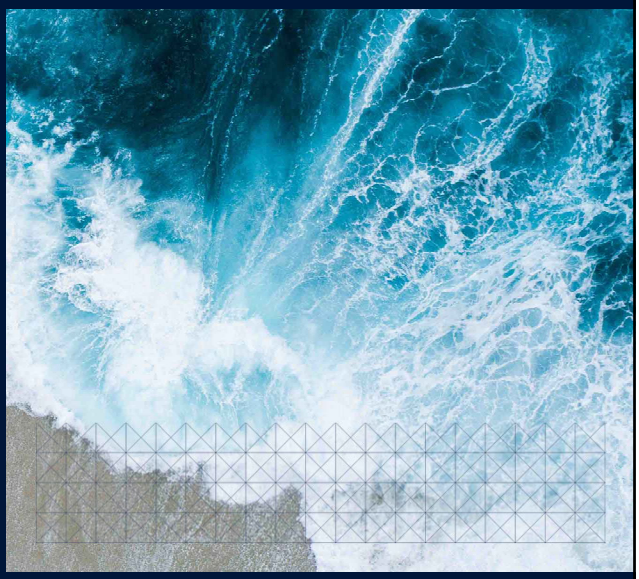
ANALOGUE MEASUREMENT



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Analogue Measurement

References

- Kongsberg K-Chief 700 Integrated Control System Product Description, 304844/B
- Kongsberg K-Chief 700 Operator Manual, 332618/B

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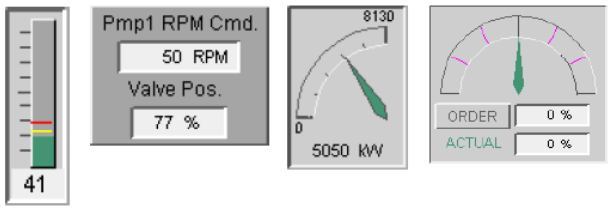
Content

- Description
- Analogue measurement symbols
- meas_av function module
- meas_av alarms
- Alarm limits
- Signal limits
- Suppress alarm
- Inhibit (consequence)

Analogue measurement symbols



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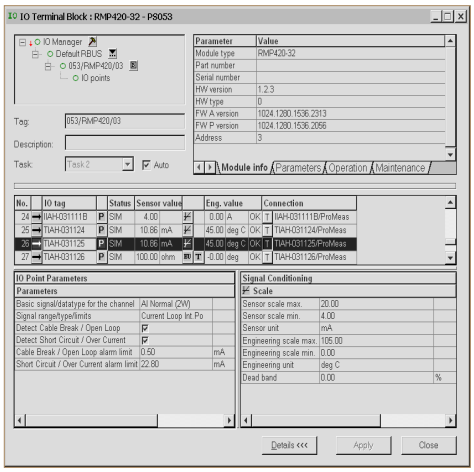
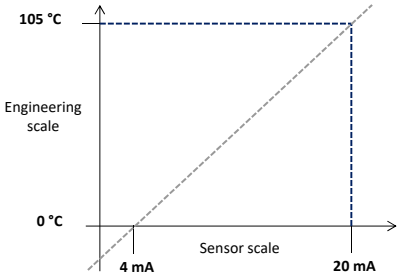
Analogue measurement

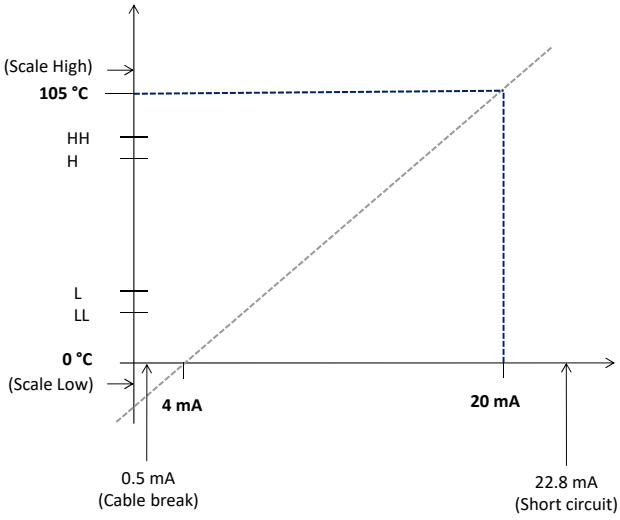
IO Terminal Block





Signal Conditioning	
Scale	
Sensor scale max.	20.00
Sensor scale min.	4.00
Sensor unit	mA
Engineering scale max.	105.00
Engineering scale min.	0.00
Engineering unit	deg C
Dead band	0.00

Limits



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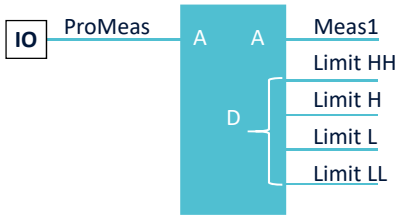
meas_av function module

measurement_analogue **v**essel

- Use for handling an analogue input measurement signal

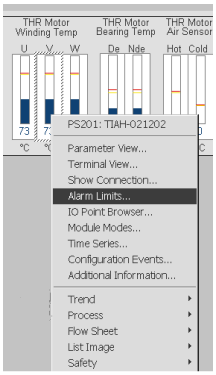


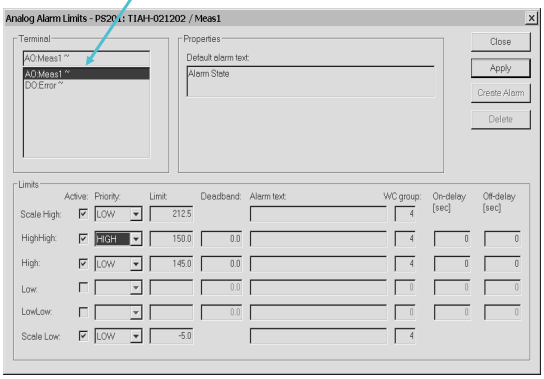
- ProMeas: Process Measurement
- Meas1: Measurement

meas_av alarm limits

To add or edit alarm limits:
- Open Alarm Limits dialog box

Analogue alarms limits are defined on the Meas1 terminal





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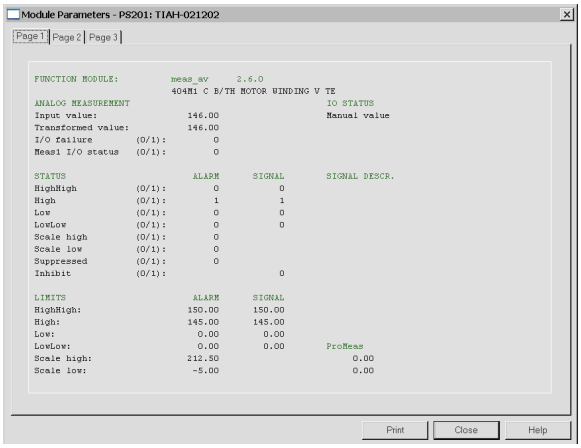
Alarm information in Parameter view

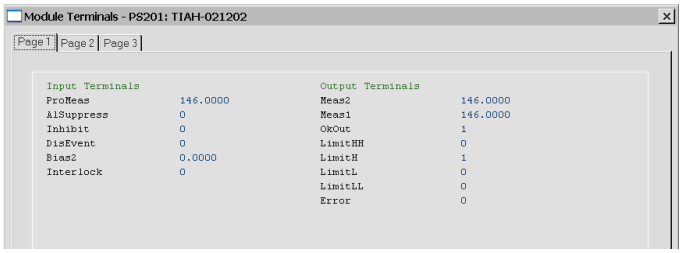
Meas1 terminal → High alarm limit → Status high alarm set to 1



meas_av signal limits

"Signals" are directly connected to the four digital limit terminals:

- Limit HH
- Limit H
- Limit L
- Limit LL



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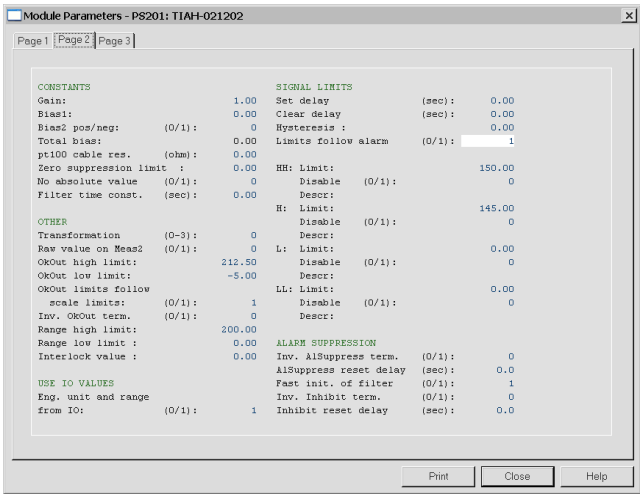
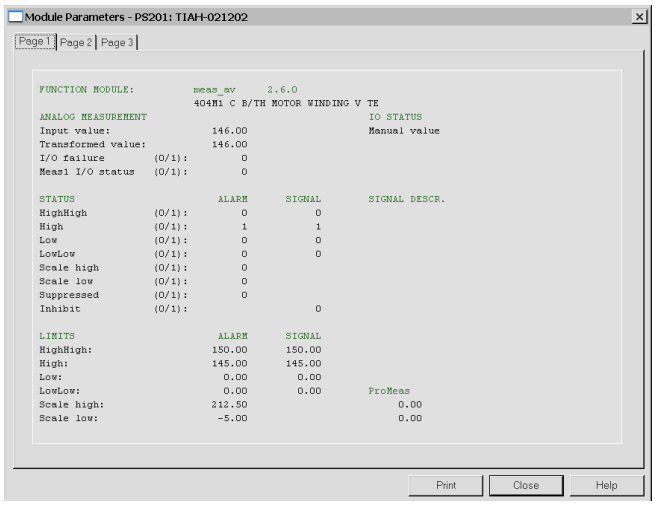
Signal limits



Signal information



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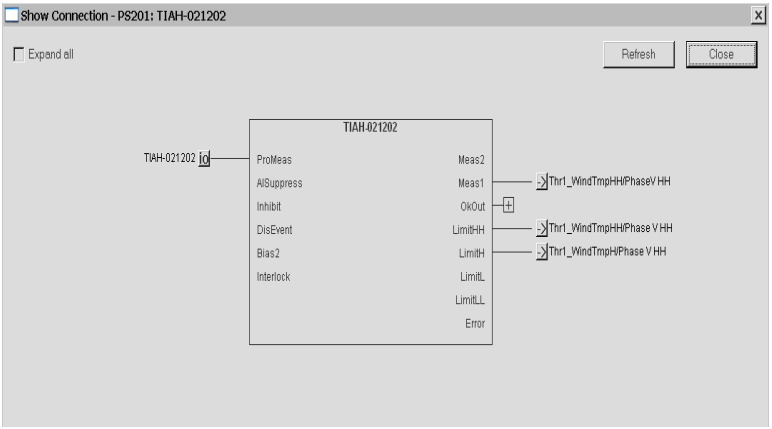
Show Connection for meas_av function module



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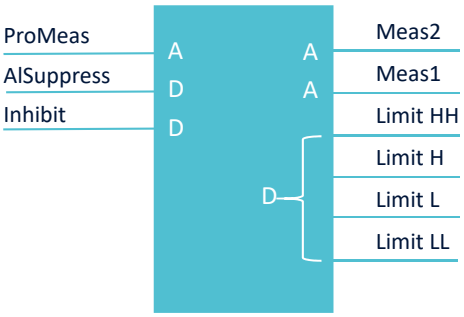
Suppress and Inhibit



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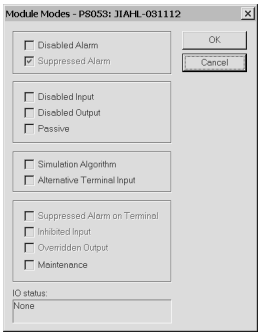
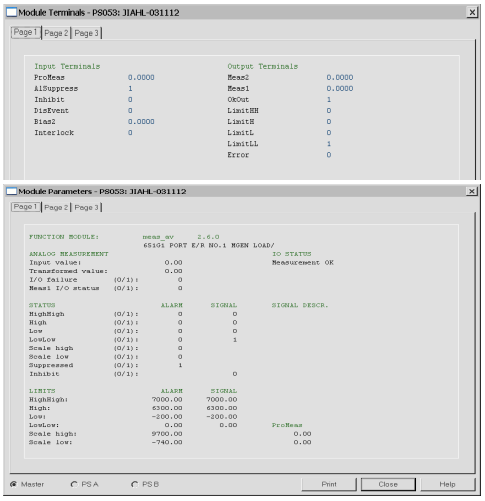
Suppress alarm

No alarm reporting

Signal terminal(s) to 1

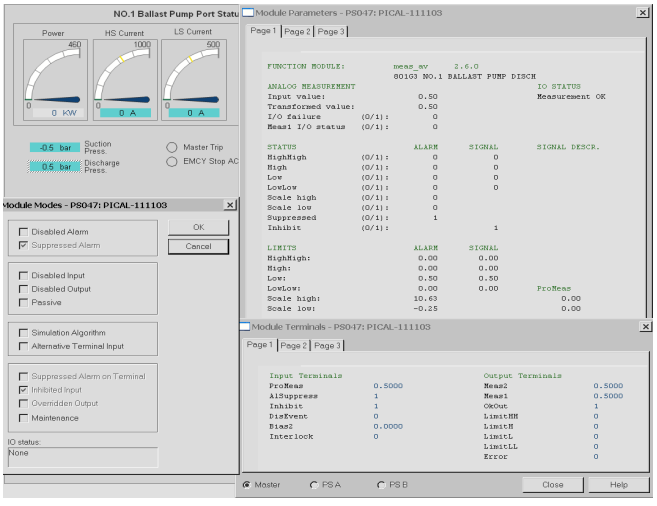




Inhibit a function module

Alarm reporting as normal,

but Signal terminals are set to 0



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Exercises:

- Analogue Measurement
- Alarm Suppression

Learning Objectives

- Identify a analogue measurement function module (symbol, type and version)
- Describe the functionality of a “meas_av” function module
- Explain the analogue alarm settings in Alarm Limits dialog box
- Identify and explain the signal settings for a function module
- Explain the difference between analogue alarm limits and signal limits
- Change and add analogue alarm limits and signal limits on terminals which already have alarms configured
- Identify and explain a inhibited function module
- Identify and explain an alarm suppressed status for a function module
- Predict the consequences when making changes to a “meas_av” function module


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End of the presentation
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