

NOVEMBER 2022

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# AVEVA™ APC - Closed Loop Model Adaptation and latest features DEMO

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**AVEVA**

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# Agenda

Closed Loop Model Adaptation

Relative Gain Analysis Matrix

Controller Tuner

AVEVA APC Web

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# Closed Loop Model Adaptation

# Closed loop model adaptation

## Tools



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# Relative Gain Analysis Matrix

- APC Explorer
- Connect
- Process Test
- Data Processing
- Linear Modeling
- Nonlinear Modeling
- Control Design
  - Final Linear Model
  - Controller Details
  - NL Predictor Details
  - Composite Optimizer
  - Promote
  - Controller Overview
  - Optimizer Overview
  - NL Predictor Overview
  - Composite LP Overview
  - Sub-ControllerSummary
- Monitor

Controller Overview Optimizer Overview Controller Details

DRYER

Controller Sub Controller Adaptor RGA

Active CVs: 6 / 9 Active MVs: 4 / 4 Condition Number Calculation  17.3025

CV	MV	HPPSpeed	IATemp	IAFan	IFB_IATemp
Capacity		0.5485	0	0	0
OutletAirTemp		-0.0341	-0.0837	0.0606	0.1458
OARelHum		0.4856	-0.2373	0.2025	0.4171
NozzlePressure		0	0	0	0
Enthalpy		0	0.3487	0	0.437
UnderPressureCO		0	0	0.7121	0
IASteamCO		0	0.9723	0.0248	0
ProductMoisture		0	0	0	0
BulkDensity		0	0	0	0

Legend

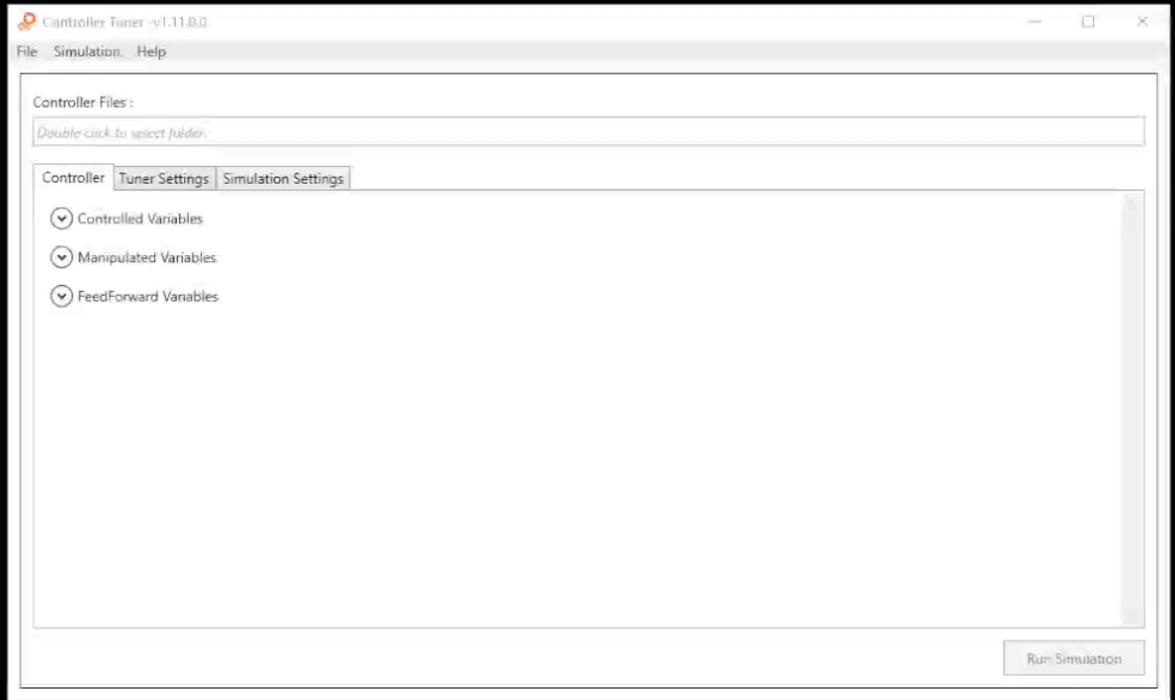
Diagnostic Messages

Time Stamp	Type	Area	Message
11/04/2022 11:01:16	Info	Controller	DRYER_LP: Optimizer Gainset GainSetNew is updated successfully from selected adaptor.relation(s)
11/04/2022 11:01:41	Info	Controller	DRYER: Control modelset modified to ControllerModelSetNew
11/04/2022 11:01:48	Info	Controller	DRYER_LP: Control GainSet modified to GainSetNew
11/04/2022 11:03:34	Info	Trends	Controller successfully saved in trend manager.

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# Controller Tuner





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# AVEVA APC Web



# AVEVA™ APC Web Interface

DEMO



### Controllers

Navigation	Controller Name	Status	Site Name	Node Name	Action
	DEETHAN	Active	DEMO1	APCBETA	

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### Dashboards

Dashboard Na...	Description	Created By	Access Level	Last Updated On	Action
Debutanizer Contro...		Engineer	Private	07-15-2022 22:14:45	
KPI Splitter All		Engineer	Private	07-15-2022 21:25:55	
Dashboard-4544	Description	Engineer	Private	07-15-2022 21:35:58	
KPI - Debutanizer All		Engineer	Private	07-15-2022 22:09:54	
Deethanizer - Contr...		Engineer	Private	10-05-2022 19:11:33	
KPI Deethanizer All...		Engineer	Private	10-03-2022 21:53:19	

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### KPI Reports

Report Name	Description	Site Name	Node	Controller	Action
DEBUT ALL	DEBUT ALL	DEMO1	APCBETA	DEBUT	
Splitter All		DEMO1	APCBETA	SPLITTER	
Deethanizer All 1h		DEMO1	APCBETA	DEETHAN	
Deethanizer - Util...		DEMO1	APCBETA	DEETHAN	
Deethanizer Dem...		DEMO1	APCBETA	DEETHAN	

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### Tag Collections

Navigation	Tag Collection Name	Description	Site Name	Node Name	Action
	KPI Config		DEMO1	APCBETA	
	ModelQuality		DEMO1	APCBETA	

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# Questions?

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# Thank you!

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AVEVA is a global leader in industrial software, sparking ingenuity to drive responsible use of the world's resources. The company's secure industrial cloud platform and applications enable businesses to harness the power of their information and improve collaboration with customers, suppliers and partners.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. With operations around the globe, we are headquartered in Cambridge, UK and listed on the London Stock Exchange's FTSE 100.

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