

OPEN_LOOP_BACKUP Expression

Expression:

```
1 (* IF SUBSTRATE CONCENTRATION TOO HIGH, THEN CUT BACK SUBSTRATE FEED IF NOT IN MANUAL *)
2 IF ('^/AC6-4/MODE.TARGET' != MAN) THEN
3   IF ('^/AT6-4/PV' > '^/MAX_SUBSTRATE') THEN
4     '^/AC6-4/MODE.TARGET' := ROUT;
5     '^/AC6-4/ROUT_IN' := '^/AC6-4/OUT' - '^/FEED_CUTBACK';
6   ELSE
7     '^/AC6-4/MODE.TARGET' := RCAS;
8   ENDIF;
9 ELSE
10  ENDIF;
```

Parser output:

Insert Internal Parameter...
Insert External Parameter...
Insert Named State...

OK
Cancel
Parse
Load...
Save...
Print
Help

[BIOREACTORS/AIC6-4] - Control Studio

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100%

Filtered by:

Alphabetic Categorized

Parameter	Default
ABNORM_ACTIVE	
ALARM_HYS	0.5
ALPHA	0.125
ARW_HI_LIM	100
ARW_LO_LIM	0
BAD_ACTIVE	
BAD_MASK	
BAL_TIME	10
BETA	0
BIAS	0
BKCAL_IN	0
BKCAL_OUT	0
BLOCK_ERR	
BYPASS	Off
CAS_IN	0
CONTROL_OPTS	Non-zero
DV_HI_ACT	0
DV_HI_LIM	0
DV_LO_ACT	0
DV_LO_LIM	0
ERROR	0
FF_ENABLE	False
FF_GAIN	1
FF_SCALE	0.0 to 10.
FF_VAL	0
FIELD_VAL	0
FORM	Standard
FRSIPID_OPTS	
GAIN	1
GAMMA	0
HI_ACT	0
HI_HI_ACT	0
HI_HI_LIM	100

Broth Substrate (g/liter) #1

Substrate Feed (kg/sec) #5

Broth Biomass (g/liter) #6

Broth Product (g/liter) #7

PID AC6-4 #3

AO MOC6-4 #4

VSD Speed (%)

CALC OPEN_LOOP_BACKUP #2

MAX_SUBSTRATE

Maximum Substrate for Open Loop Backup (g/liter)

FEED_CUTBACK

Cutback in VSD Speed for Open Loop Backup (%/scan)

For Help, press F1

Assigned to: D12S2R51

NUM

FRSIPID_OPTS Properties



Parameter name:

FRSIPID_OPTS

OK

Parameter type:

Option bitstring

Cancel

Parameter category:

Tuning

Filter...

Properties

Value:

- Dynamic Reset Limit
- Use Delayed OUT on Bad PV
- Use Nonlinear Gain Modification

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Filtered by:

Alphabetic Categorized

Parameter	Default
ABNORM_ACTIVE	
BAD_ACTIVE	
BAD_MASK	
BKCAL_OUT	0
BLOCK_ERR	
CAS_IN	0
INSPECT_ACT	0
IO_OPTS	Non-zero
IO_OUT	
IO_READBACK	
MODE	Cascade/
OUT	0
PV	0
PV_SCALE	0.0 to 10...
RCAS_IN	0
RCAS_OUT	0
READBACK	0
SHED_OPT	Normal s...
SHED_TIME	0
SIMULATE	Disabled, 0
SP	0
SP_HI_LIM	100
SP_LO_LIM	0
SP_RATE_DN	1
SP_RATE_UP	0
SP_WRK	0
STDEV	0
STDEV_CAP	0
STDEV_TIME	0
XD_SCALE	0.0 to 10...

AI AT6-4
Broth Substrate (g/liter)

AI FT6-4
Substrate Feed (kg/sec)

AI AT6-5
Broth Biomass (g/liter)

AI AT6-6
Broth Product (g/liter)

PID AC6-4

AO MOC6-4
VSD Speed (%)

CALC
OPEN_LOOP_BACKUP #2

MAX_SUBSTRATE
Maximum Substrate for Open Loop Backup (g/liter)

FEED_CUTBACK
Cutback in VSD Speed for Open Loop Backup (%/scan)

For Help, press F1

Assigned to: D12S2R51

NUM

SP_RATE_DN Properties



Parameter name:

SP_RATE_DN

OK

Parameter type:

Floating point

Cancel

Parameter category:

Tuning



Filter...

Restore parameter value after restart

Properties

Value:

1

IO_OPTS Properties  

Parameter name:

Parameter type:
 ▼

Parameter category:
 ▼

Properties

Value:

- Use PV for BKCAL_OUT
- Increase to close
- SP-PV Track in LO or IMan
- SP-PV Track in Man