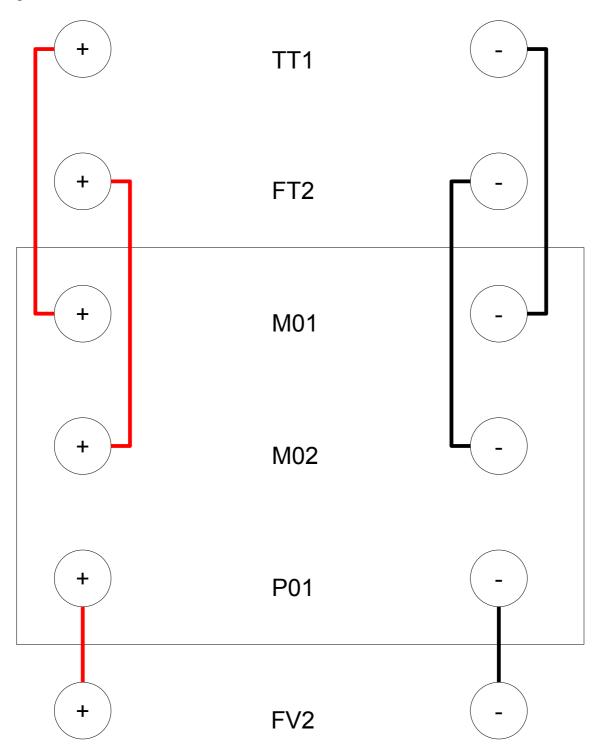
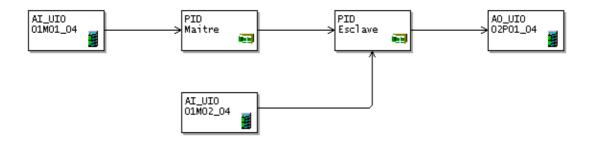
<u>TP3 Multi - Ayza</u>	Pt		Α	В	C D	Note	
INSTRUMENTATION							
Cablage électrique	2	Α				2	
REGULATION							
Mise en place de la régulation cascade	3	Α				3	
Réglage de la boucle de régulation	6	С				2,1	
Validation du fonctionnement du démarrage	3	С				1,05	
AUTOMATISMES							
GRAFCET	6	С				2,1	
		Note	: 1	0.2	5/20		

TP3 Multiboucle

# Câblage



## On fait une régulation cascade



## Et on paramètre les entrées

TagName	01M01_04		LIN Name	01M01_04	
Туре	AI_UIO		DBase	<local></local>	
Task	3 (110ms)		Rate	0	
MODE	AUTO		Alarms		
Fallback	AUTO		Node	>00	
			SiteNo	1	
PV	0.0	%	Channel	1	
HR	100.0	%	InType	mA	
LR	0.0	%	HR_in	20.00	mΑ
			LR_in	4.00	mA
HiHi	100.0	%	AI	0.00	mΑ
Hi	100.0	%	Res	0.000	Ohm
Lo	0.0	%			
LoLo	0.0	%	CJ_type	Auto	
Hyst	0.5000	%	CJ_temp	0.000	
			LeadRes	0.000	Ohm
Filter	0.000	Secs	Emissiv	1.000	
Char	Linear		Delay	0.000	Secs
UserChar					
			SBreak	Up	
PVoffset	0.000	%	PVErrAct	Up	
AlmOnTim	0.000	Secs	Options	>0000	
Alm0fTim	0.000	Secs	Status	>0000	

TagName	01M02_04		LIN Name	01M02_04	
Туре	AI_UIO		DBase	<local></local>	
Task	3 (110ms)		Rate	0	
MODE	AUTO		Alarms		
Fallback	AUTO		Node	>00	
			SiteNo	1	
PV	0.0	%	Channel	2	
HR	100.0	%	InType	mA	
LR	0.0	%	HR_in	20.00	mA
			LR_in	4.00	mA
HiHi	100.0	%	AI	0.00	mA
Hi	100.0	%	Res	0.000	Ohms
Lo	0.0	%			
LoLo	0.0	%	CJ_type	Auto	
Hyst	0.5000	%	CJ_temp	0.000	
			LeadRes	0.000	Ohms
Filter	0.000	Secs	Emissiv	1.000	
Char	Linear		Delay	0.000	Secs
UserChar					
			SBreak	Up	
PVoffset	0.000	%	PVErrAct	Up	
Alm0nTim	0.000	Secs	Options	>0000	
Alm0fTim	0.000	Secs	Status	>0000	

### Puis la sortie

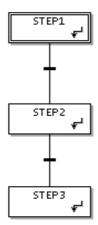
TagName	02P01_04		LIN Name	02P01_04	
Туре	AO_UIO		DBase	<local></local>	
Task	3 (110ms)		Rate	0	
MODE	AUTO		Alarms		
Fallback	AUTO		Node	>00	
			Sitello	2	
→ OP	0.0	%	Channel	1	
HR	100.0	%	OutType	mA	
LR	0.0	%	HR_out	20.00	mA
			LR_out	4.00	mA
Out	0.0	%	AO	0.00	mA
Track	0.0	%			
Trim	0.000	mA	Options	>0000	
			Status	>0000	

### Puis les PID

TagName	Maitre		LIN Name	Maitre	
Туре	PID		DBase	<local></local>	
Task	3 (110ms)		Rate	0	
Mode	AUTO		Alarms		
FallBack	AUTO				
			HAA	100.0	%
→PV	0.0	%	LAA	0.0	%
SP	0.0	%	HDA	100.0	%
OP	0.0	%	LDA	100.0	%
SL	0.0	%			
TrimSP	0.0	%	TimeBase	Secs	
RemoteSP	0.0	%	XP	100.0	%
Track	0.0	%	TI	0.00	
			TD	0.00	
HR_SP	100.0	%			
LR_SP	0.0	%	Options	01101100	
HL_SP	100.0	%	SelMode	00000000	
LL_SP	0.0	%			
			ModeSel	00000000	
HR_OP	100.0	%	ModeAct	00000000	
LR_OP	0.0	%			
HL_OP	100.0	%	FF_PID	50.0	%
LL_OP	0.0	%	FB_OP	0.0	%

TagName	Esclave		LIN Name	Esclave	
Туре	PID		DBase	<local></local>	
Task	3 (110ms)		Rate	0	
Mode	AUTO		Alarms		
FallBack	AUTO				
			HAA	100.0	%
→PV	0.0	%	LAA	0.0	%
SP	0.0	%	HDA	100.0	%
OP	0.0	%	LDA	100.0	%
SL	0.0	%			
TrimSP	0.0	%	TimeBase	Secs	
→ RemoteSP	0.0	%	XP	100.0	%
Track	0.0	%	TI	0.00	
			TD	0.00	
HR_SP	100.0	%			
LR_SP	0.0	%	Options	01101100	
HL_SP	100.0	%	SelMode	00000000	
LL_SP	0.0	%			
			ModeSel	00000000	
HR_OP	100.0	%	ModeAct	00000000	
LR_OP	0.0	%			
HL_OP	100.0	%	FF_PID	50.0	%
LL_OP	0.0	%	FB_OP	0.0	%

### Le grafcet



#### Step 1

```
Esclave.SelMode.SelMan:=1;
Maitre.SelMode.SelMan:=1;
```

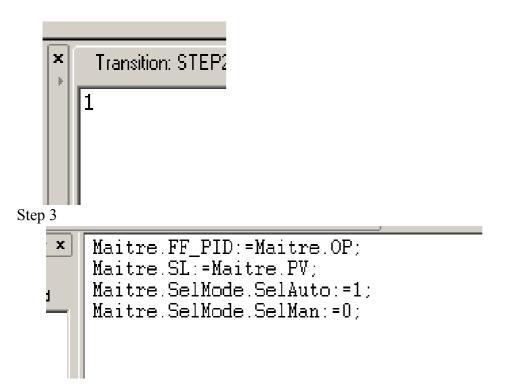
#### Transition 1

```
Maitre.PV>Maitre.SP
```

Step 2

```
Esclave.FF_PID:=Esclave.OP;
Esclave.SL:=Esclave.PV;
Esclave.SelMode.SelRem:=1;
Esclave.SelMode.SelMan:=0;
```

Transition 2



Apres on rajoute le block control



Et on le paramètre

TagName	G1_CON	LIN Name	G1_CON
Туре	SFC_CON	DBase	<local></local>
Task	3 (110ms)	Rate	0
Run	TRUE	Alarms	
Hold	FALSE		
Init	FALSE	FileName	G1
Load	TRUE	Filepath	
		DispBlk	

On voit que quand M01.PV passe au dessus de 50, les pid change de mode

-
Valeur
49.90777206
50
83.91079712
99.97558594
0
50
MANUAL
MANUAL

