

SATTGRAPH PICTURE DOCUMENTATION

File: "frtgr150lib"

Date: "2004-12-07-15:27:11.781"

Options: DocPostScript DocAlignToPage
DocProgram DocStructSequence
DocumentPageLayout=
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DocDefinitionLines=10
DocPictureLines=10 DocProgramSize=1000

LIBRARIES

configlib 2004-11-19-13:02:29.102
SG_libs:nucleuslib 2003-05-05-13:20:29.954
LT:lt4xlib 2002-12-06-14:42:35.906
lt:lt4lib 2004-10-15-16:11:51.093
LT:lt4mmslib 2004-10-15-16:14:33.437
LT:lt4eventlib 2004-04-02-16:31:03.421
LT:lt4op45lib 2003-05-06-14:54:27.584
LT:lt4maalerlib 2003-05-06-14:53:20.615
LT:lt4replib 2004-06-02-10:28:50.390
LT:lt4_2ventillib 2004-10-15-16:25:04.843
LT:lt4motorlib 2004-04-02-16:32:14.437
LT:lt4vaskelib 2004-10-15-16:22:16.375
LT:lt4funklib 2003-10-16-10:02:03.718
LT:lt4ventillib 2004-11-05-09:45:39.984
frobjektlib 2004-12-07-14:39:51.921
SG_libs:JournalLib 2003-12-10-11:58:03.706
LT:lt4profibaselib 2003-05-06-14:57:27.397
frconflib 2004-11-19-14:22:06.234
fr4objektlib 2004-11-19-13:02:30.824
lt:lt4tanklib 2003-05-09-14:35:44.928

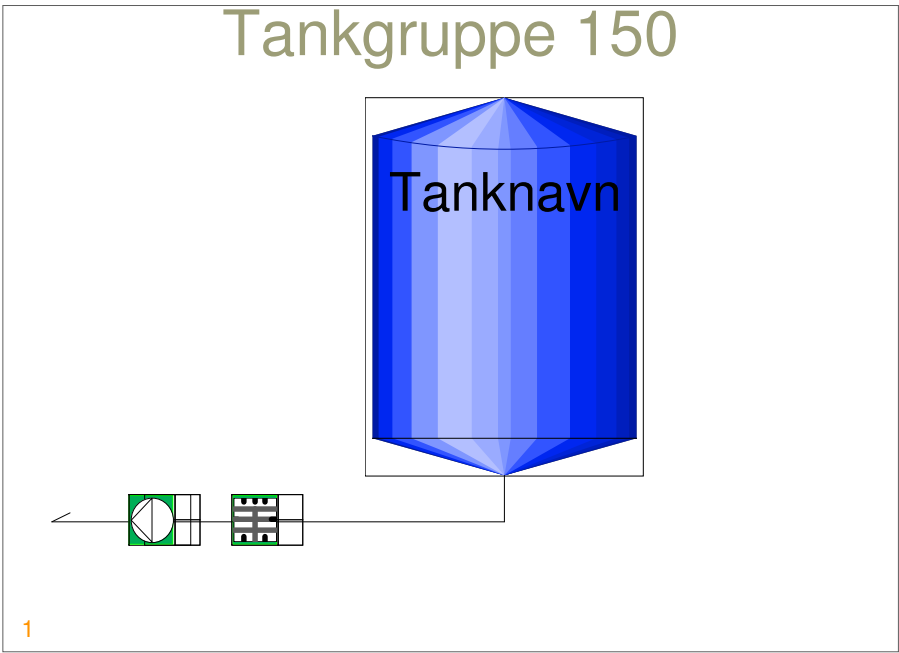
BasePicture (Module)

frtgr150lib

frtgr150lib

Version:(2.2)

Date:Se EndringsHistorikk



DATA TYPE DEFINITIONS

Name	Data type	Initial	Description
-----	-----	-----	-----
IO_Tgr150Type	RECORD		
'10_50'	Booleansignal		LSH T152/Tank 10.00
V10_01	IO_Ventil_type		
Y10_01	VentilType		
V10_03	IO_Ventil_type		
Y10_03	VentilType		
V10_07	IO_Ventil_type		
Y10_07	VentilType		
V10_06	IO_Ventil_type		
Y10_06	VentilType		
M10_20	IO_Pump_type		
P10_20	PumpType		
M10_21	IO_Pump_type		
P10_21	PumpType		
'10_60'	AnalogSignalIn		Nivå Tank 150/10.00B
ENDDEF			

Name	Data type	Initial	Description
----	-----	-----	-----

tgr150libVersion (Module type)

frtgr150lib

Version:(2.2)

Date:Se EndringsHistorikk

L1 (Frame Module) in tgr150libVersion

frtgr150lib

Version:(2.2)

Date:Se EndringsHistorikk

L2 (Frame Module) in L1

tgr40lib Type: Del-Prosess Responsibility:	Sublibraries:			
	<table><tr><td>fronlib</td></tr><tr><td>Version: 1.0</td></tr><tr><td>Date: 11-07-02</td></tr></table>	fronlib	Version: 1.0	Date: 11-07-02
	fronlib			
Version: 1.0				
Date: 11-07-02				
<table><tr><td>NucleusLib</td></tr><tr><td>Version: 2.3-22</td></tr><tr><td>Date: 04-07-02</td></tr></table>	NucleusLib	Version: 2.3-22	Date: 04-07-02	
NucleusLib				
Version: 2.3-22				
Date: 04-07-02				

Unnam2 (Module type NucleusLib:NucleusLibVersion) in L2

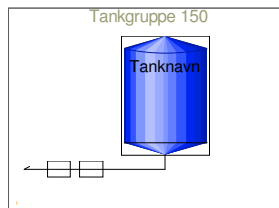
NucleusLib

Version: 2.3-22

Date: 04-07-02

Unnam1 (Module type frconflib:configlibVersion) in L2

frconflib Version:(1.2) Date:99-10-28

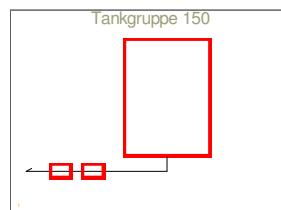
tgr150 (Module type)**SCAN GROUP ApplicationScanGroup.SYS7.Normal****PARAMETERS**

Name	Data type	Default	Description
-----	-----	-----	-----
Processavsnitt	identstring	"Tgr150"	
ProgStationData	ProgStationData		
Privileges	PrivilegeType		
ApplicationScanGroup	ApplScanGroupType		
IO	IO_Tgr150Type		IN/UT
SO	SO_TgrType		

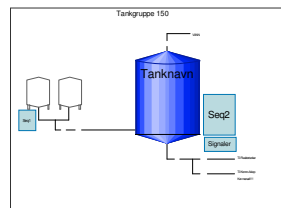
VARIABLES

Name	Data type	Default	Description
-----	-----	-----	-----
LSAHTank152	Boolean		
LocalPrivileges	LocalPrivilegeType		
Tank150skyller	Boolean		
Pumpe10_20start	Timer		
Pumpe10_20starttid	Integer OpSave		
Pumpe10_20stop	Timer		
Pumpe10_20stoptid	Integer OpSave		
Pumpe10_21start	Timer		
Pumpe10_21starttid	Integer OpSave		
Pumpe10_21stop	Timer		
Pumpe10_21stoptid	Integer OpSave		
LSAHTank152Timer	Timer		
LSAHTank152tid	Integer OpSave		
Tank150skylletimer	Timer		
Tank150skylletid	Integer OpSave		
Tank150drentimer	Timer		
Tank150drentid	Integer OpSave		
Tank150Nivå	MålerType		
Tanknavn	Identstring		
LTX1Init	real	0.0	
LY1Init	real	0.0	
LTX2Init	real	10.0	

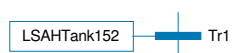
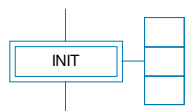
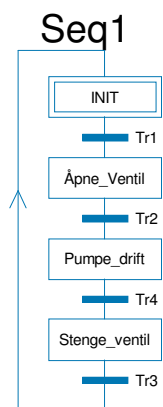
Name	Data type	Default	Description
----	-----	-----	-----
LTY2Init	real	2500.0	
LTX3Init	real	95.0	
LTY3Init	real	50000.0	
Skyllet	Boolean		

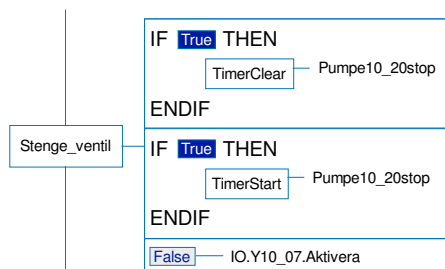
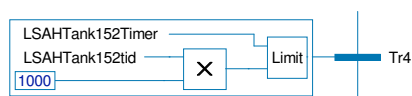
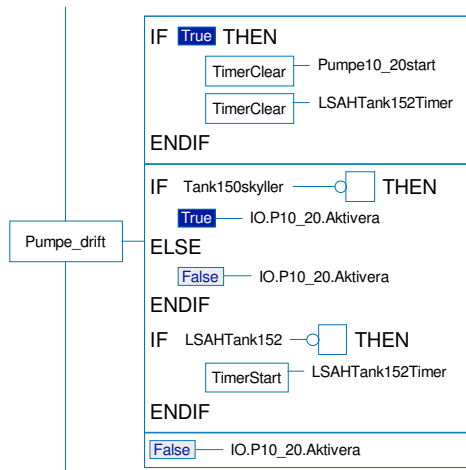
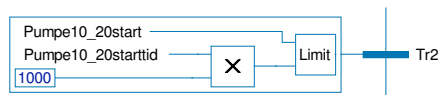
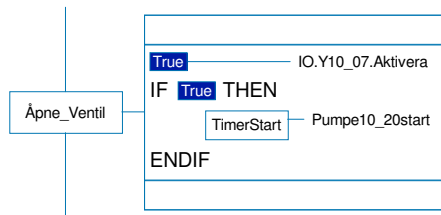
L1 (Frame Module) in tgr150

L2 (Frame Module) in L1

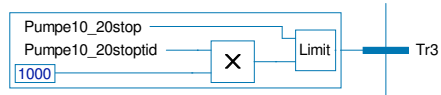


Seq1 (Sequence)

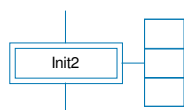
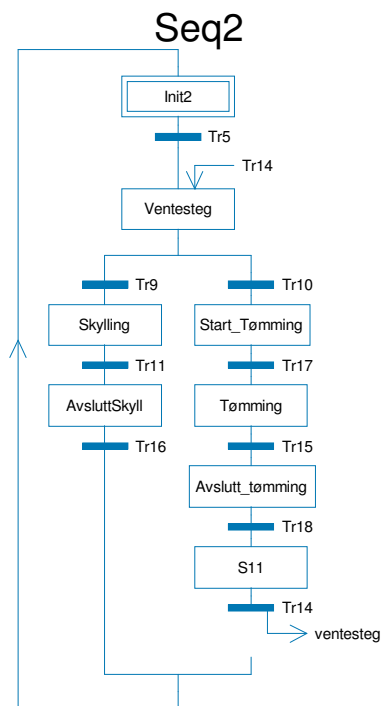


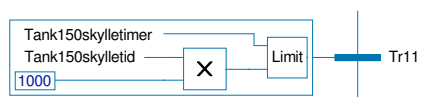
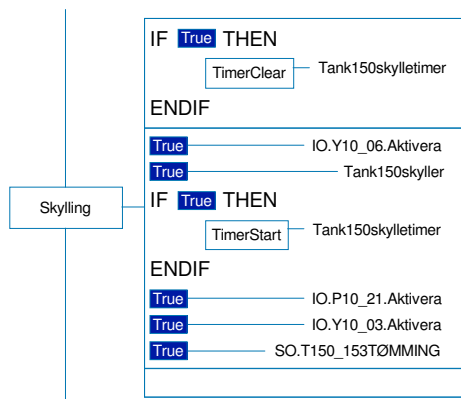
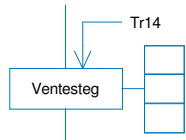
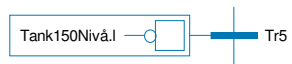


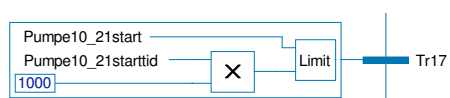
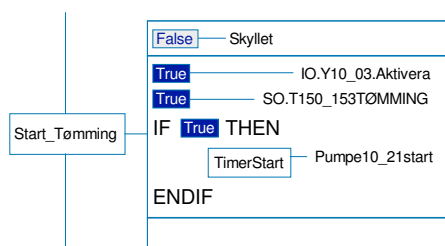
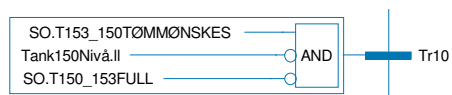
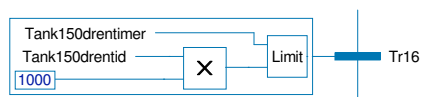
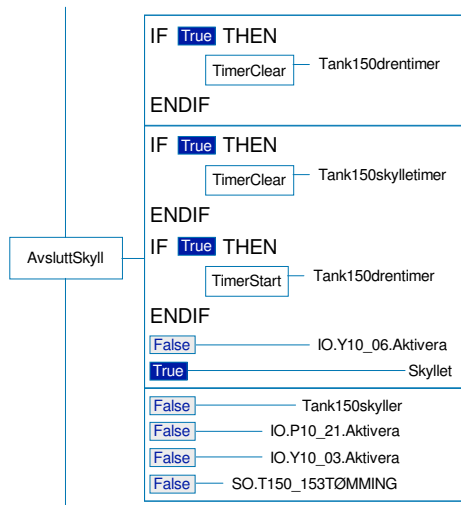
| False IO.Y10_07.Aktivera

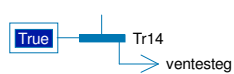
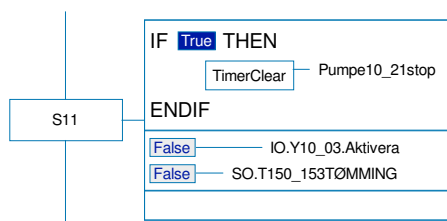
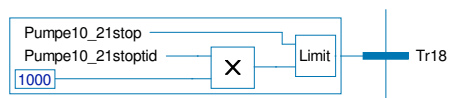
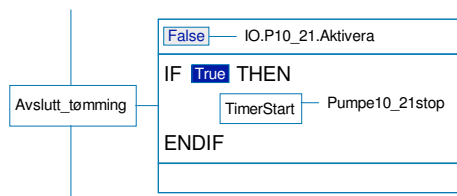
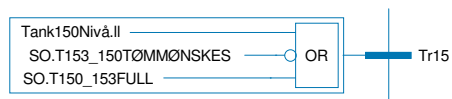
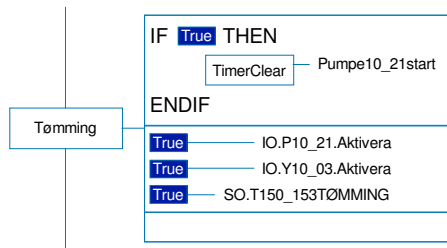


Seq2 (Sequence)







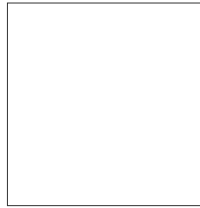


Signaler (Equation)

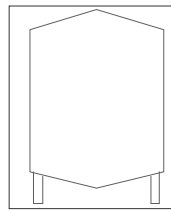
Signaler

```
IF Tank150Nivå.11 THEN
  True — SO.T150_153TOM
ELSE
  False — SO.T150_153TOM
ENDIF
```

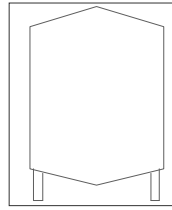
FM1 (Frame Module) in L2

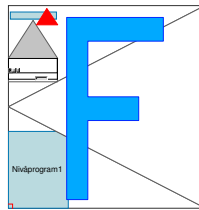


Tank151 (Module type It4xlib:TankDummy) in L2

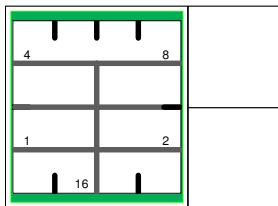


Tank152 (Module type It4xlib:TankDummy) in L2

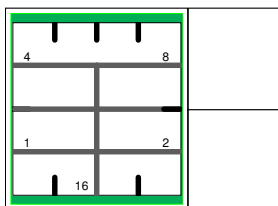


DigitaltNivåblock1 (Module type It4lib:DigitaltNivåblock) in L2**CONNECTIONS**

Name	Data type	Default	Actual Variable	Description
Namn	identstring		"LSHTank152"	IN Objektnamn
Processavsnitt	identstring		Processavsnitt	IN Namn på aktuell del av processen
ProgStationData	ProgStationData		ProgStationData	
Privileges	PrivilegeType		Privileges	
Textstræng	string		"Høyt Nivå"	IN GLOBAL Aktuell hendelse t.ex Textdef .Høgnivå/Lågnivå h�mtad fr�n textdef
IO_Niv�Signal	booleanSignal		IO.'10_50'	IN IO-signalen att f�rdr�ja
PositivLogik	boolean	True		IN True=slutande signal, False= brytande signal
F�rg	integer	11		IN Eks: ProgStationData.Colours.Niv�StatusF�rg eller ProgStationData.Colours.Niv�AlarmF�rg
BlokkerText	boolean	False	True	IN Blokkerer tekstutskrift
Niv�SignalF�rdr�jd	boolean		LSAHTank152	UT IO-signalen f�rdr�jd
HoldTimer	boolean	False		Kan tilkobles "ikke Drift" for � stoppe timer n�r det ikke er aktivitet

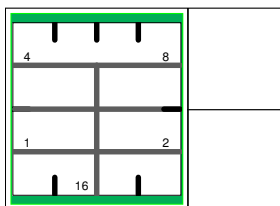
V10_05 (Module type fr4objektlib:FR4_Ventil) in L2**CONNECTIONS**

Name	Data type	Default	Actual Variable	Description
-----	-----	-----	-----	-----
Namn	identstring		"V10.07"	IN Objektnamn
NodeName	identstring	" "		IN Eks: "1013A" (dvs: SattTop-system 1000 node 13A)
Processavsnitt	IdentString		Processavsnitt	IN Plassering i anlegget før feltext, kobles normalt til parameter Prosessavsnitt
ProgStationData	ProgStationData		ProgStationData	
IO	IO_Ventil_Type		IO.V10_07	IN/UT
EnableManuell	boolean	True		
SO	VentilType		IO.Y10_07	IN/OUT
VentilType	integer	0	32	IN 9=21Ventil NC-bunnløp: +1=Løp1(NV), +2=Løp2(NH), +4=Løp3(ØV), +8=(ØH), +16=BunnløpNO, 32=Spjeld
VentilRotasjon	real	0.0		IN 0=Bunnløp nedover, 1=Bunnløp til venstre, 2=Bunnløp oppover, 3=Bunnløp til høyre

V10_03 (Module type fr4objektlib:FR4_Ventil) in L2

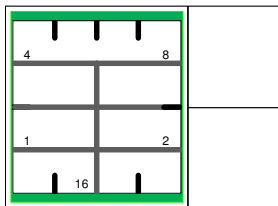
CONNECTIONS

Name	Data type	Default	Actual Variable	Description
----	-----	-----	-----	-----
Namn	identstring		"V10.03"	IN Objektnamn
NodeName	identstring	" "		IN Eks: "1013A" (dvs: SattTop-system 1000 node 13A)
Processavsnitt	IdentString		Processavsnitt	IN Plassering i anlegget før feltext, kobles normalt til parameter Prosessavsnitt
ProgStationData	ProgStationData		ProgStationData	
IO	IO_Ventil_Type		IO.V10_03	IN/UT
EnableManuell	boolean	True		
SO	VentilType		IO.Y10_03	IN/OUT
VentilType	integer	0	32	IN 9=21Ventil NC-bunnløp: +1=Løp1(NV), +2=Løp2(NH), +4=Løp3(ØV), +8=(ØH), +16=BunnløpNO, 32=Spjeld
VentilRotasjon	real	0.0		IN 0=Bunnløp nedover, 1=Bunnløp til venstre, 2=Bunnløp oppover, 3=Bunnløp til høyre

V10_01 (Module type fr4objektlib:FR4_Ventil) in L2

CONNECTIONS

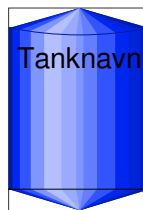
Name	Data type	Default	Actual Variable	Description
-----	-----	-----	-----	-----
Namn	identstring		"V10.01"	IN Objektnamn
NodeName	identstring	" "		IN Eks: "1013A" (dvs: SattTop-system 1000 node 13A)
Processavsnitt	IdentString		Processavsnitt	IN Plassering i anlegget før feltext, kobles normalt til parameter Prosessavsnitt
ProgStationData	ProgStationData		ProgStationData	
IO	IO_Ventil_Type		IO.V10_01	IN/UT
EnableManuell	boolean	True		
SO	VentilType		IO.Y10_01	IN/OUT
VentilType	integer	0	32	IN 9=21Ventil NC-bunnløp: +1=Løp1(NV), +2=Løp2(NH), +4=Løp3(ØV), +8=(ØH), +16=BunnløpNO, 32=Spjeld
VentilRotasjon	real	0.0		IN 0=Bunnløp nedover, 1=Bunnløp til venstre, 2=Bunnløp oppover, 3=Bunnløp til høyre

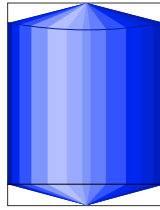
V10_06 (Module type fr4objektlib:FR4_Ventil) in L2

CONNECTIONS

Name	Data type	Default	Actual Variable	Description
-----	-----	-----	-----	-----
Namn	identstring		"V10.06"	IN Objektnamn
NodeName	identstring	" "		IN Eks: "1013A" (dvs: SattTop-system 1000 node 13A)
Processavsnitt	IdentString		Processavsnitt	IN Plassering i anlegget før feltext, kobles normalt til parameter Prosessavsnitt
ProgStationData	ProgStationData		ProgStationData	
IO	IO_Ventil_Type		IO.V10_06	IN/UT
EnableManuell	boolean	True		
SO	VentilType		IO.Y10_06	IN/OUT
VentilType	integer	0	32	IN 9=21Ventil NC-bunnløp: +1=Løp1(NV), +2=Løp2(NH), +4=Løp3(ØV), +8=(ØH), +16=BunnløpNO, 32=Spjeld
VentilRotasjon	real	0.0		IN 0=Bunnløp nedover, 1=Bunnløp til venstre, 2=Bunnløp oppover, 3=Bunnløp til høyre

Tank150 (Frame Module) in L2



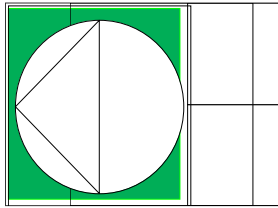
Tank (Module type It4lib:Tank) in Tank150**CONNECTIONS**

Name	Data type	Default	Actual Variable	Description
-----	-----	-----	-----	-----
VætskeFærg	integer	14	14	IN Færg på inneholdet i tanken
Nivå	real		Tank150Nivå.Verdi	IN Nivå på Tank
NivåMin	real		Tank150Nivå.Min	IN Min nivå fra AnalogSignalIn
NivåMax	real		Tank150Nivå.Max	IN Max nivå fra AnalogSignalIn

Tank150 (Frame Module) in Tank150

Tanknavn

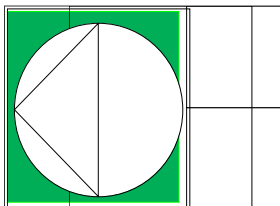
M10_20 (Module type fr4objektlib:FR4_Pump) in L2



CONNECTIONS

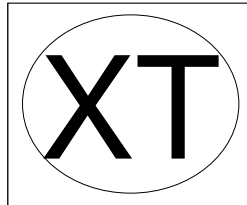
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-----	-----	-----	-----	-----
Namn	identstring		"M10.20"	IN Objektnamn
NodeName	identstring	" "		IN Eks: "1013A" (dvs: SattTop-system 1000 node 13A)
Processavsnitt	IdentString		Tanknavn	IN Plassering i anlegget før feltext, kobles normalt til parameter Prosessavsnitt
IO	IO_Pump_Type		IO.M10_20	IN/OUT
SO	PumpType		IO.P10_20	IN/OUT
Vænster	boolean	True	False	IN Riktning på ikon.True vid pumpning å t vænster.False vid pumpning å t høger.
ProgStationData	ProgStationData		ProgStationData	
ApplicationScanGroup	GroupData		ApplicationScanGroup.SYS7.Normal	

M10_21 (Module type fr4objektlib:FR4_Pump) in L2

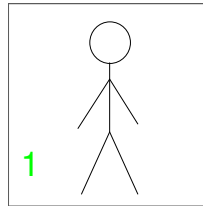


CONNECTIONS

Name	Data type	Default	Actual Variable	Description
-----	-----	-----	-----	-----
Namn	identstring		"M10.21"	IN Objektnamn
NodeName	identstring	" "		IN Eks: "1013A" (dvs: SattTop-system 1000 node 13A)
Processavsnitt	IdentString		Tanknavn	IN Plassering i anlegget før feltext, kobles normalt til parameter Prosessavsnitt
IO	IO_Pump_Type		IO.M10_21	IN/OUT
SO	PumpType		IO.P10_21	IN/OUT
Vænster	boolean	True	False	IN Riktning på ikon.True vid pumpning åt vænster.False vid pumpning åt høger.
ProgStationData	ProgStationData		ProgStationData	
ApplicationScanGroup	GroupData		ApplicationScanGroup.SYS7.Normal	

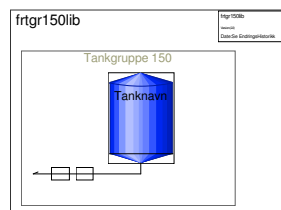
'10_611' (Module type It4maalerlib:lt) in L2

CONNECTIONS			Actual	
Name	Data type	Default	Variable	Description
----	-----	-----	-----	-----
Name	string	"Module name"		
			"'10_611'"	Module instance name
ProsessAvsnitt	identstring		ProcessAvsnitt	
ProgStationData	ProgStationData		ProgStationData	
Group	HistoryGroupType	Default		INN En av history-gruppene i HistoryMasterControl, f.eks. History.Group1
Control	HistoryControlType	Default		INN Kontrollsignalene fra HistoryMasterControl, f.eks History.Control
LoggingEnable	boolean	False		INN Om den skal skrive verdier for logging. TRUE -> Skriver verdier i journal
SamplingFactor	integer	1		Sampling faktor for logging i ShortLogging (Logger med faktor x ShortSampleTime) Bør økes når antall
TypeGiver	Identstring	"LT"	"LT"	Tekst som viser giver type
Enhet	Identstring	"Liter"	"Liter"	Tekst vindu eks. liter, Ph
Enhetbeskrivelse	Identstring	"Nivå"	"Nivå"	Tekst vindu som beskriver enheten eks Nivå, surhet
HTekst	string	"H-grense"	"LSH"	Tekst på H-grense i vindu
LTekst	string	"L-grense"	"LSL"	Tekst på L-grense i vindu
LLTekst	string	"LL-grense"	"LAL"	Tekst på LL-grense i vindu
X1Init	real		LTX1Init	Verdier for Interpolering:
Y1Init	real		LY1Init	" "
X2Init	real		LTX2Init	" "
Y2Init	real		LY2Init	" "
X3Init	real		LTX3Init	" "
Y3Init	real		LY3Init	Totalt volum
HlimitInit	real	1.0E+06	1000.0	Grenseverdi H
LlimitInit	real	-1.0E+06	1000.0	Grenseverdi L
LLlimitInit	real	-1.0E+06	100.0	Grenseverdi LL
AnalogInput	AnalogSignalIn		IO.'10_60'	IN
Ut	MålerType		Tank150Nivå	UT

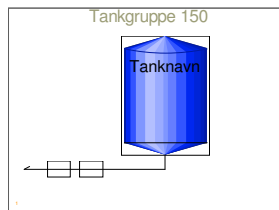
PrivilegeKontroll (Module type It4lib:PrivilegeKontroll2) in L2

CONNECTIONS			Actual	
Name	Data type	Default	Variable	Description
----	-----	-----	-----	-----
Navn	identstring		"RenseAnlegg"	IN
ProgstationData	ProgStationData		ProgStationData	
Privileges	PrivilegeType		Privileges	IN
ScanGroupController				
	GroupData	Default	ApplicationScangroup.SYS7.Slow	
				feks: ApplicationScanGroup.SYS6.Normal
LocalPrivileges	LocalPrivilegeType		LocalPrivileges	
Modul_Process0	boolean	True	False	
Interact_Process0	boolean	True	False	
Control_Process0	boolean	True	False	
Parameter_Process0	boolean	True	False	
Bruker1	tagstring	"Skummer"		IN feks: "Skummer"
Modul_Process1	boolean	False	True	
Interact_Process1	boolean	False	True	
Control_Process1	boolean	False		
Parameter_Process1	boolean	False		
Bruker2	tagstring	"Skummer2"		IN feks: "Skummer2"
Modul_Process2	boolean	False	True	
Interact_Process2	boolean	False	True	
Control_Process2	boolean	False	True	
Parameter_Process2	boolean	False	True	
Bruker3	tagstring	"Laborant"		IN feks: "Laborant"
Modul_Process3	boolean	False	True	
Interact_Process3	boolean	False		
Control_Process3	boolean	False		
Parameter_Process3	boolean	False		
Bruker4	tagstring	"Sjåfør"		IN feks: "Sjåfør"
Modul_Process4	boolean	False		
Interact_Process4	boolean	False		

Name	Data type	Default	Variable	Description
-----	-----	-----	-----	-----
Control_Process4	boolean	False		
Parameter_Process4	boolean	False		
Bruker5	tagstring	"Yster"		IN feks: "Yster"
Modul_Process5	boolean	False	True	
Interact_Process5	boolean	False		
Control_Process5	boolean	False		
Parameter_Process5	boolean	False		
Bruker6	tagstring	"Tappeoperatør"		IN feks: "Tappeoperatør"
Modul_Process6	boolean	False	True	
Interact_Process6	boolean	False		
Control_Process6	boolean	False		
Parameter_Process6	boolean	False		
Bruker7	tagstring	"Renseanlegg"		IN feks: "Renseanlegg"
Modul_Process7	boolean	False	True	
Interact_Process7	boolean	False	True	
Control_Process7	boolean	False	True	
Parameter_Process7	boolean	False	True	
Bruker8	tagstring	"Operatør8"		IN feks: "Operatør8"
Modul_Process8	boolean	False		
Interact_Process8	boolean	False		
Control_Process8	boolean	False		
Parameter_Process8	boolean	False		
Bruker9	tagstring	"Operatør9"		IN feks: "Operatør9"
Modul_Process9	boolean	False		
Interact_Process9	boolean	False		
Control_Process9	boolean	False		
Parameter_Process9	boolean	False		

tgr40lib (Frame Module)**DESCRIPTION:**

LibMaster Version: 0.1.0 Date:90-09-10 used.

tgr150 (Module type frtgr150lib:tgr150) in tgr40lib

CONNECTIONS				
Name	Data type	Default	Actual Variable	Description
-----	-----	-----	-----	-----
Processavsnitt	identstring	"Tgr150"		
ProgStationData	ProgStationData			
Privileges	PrivilegeType			
ApplicationScanGroup	ApplScanGroupType			
IO	IO_Tgr150Type			IN/UT
SO	SO_TgrType			

LibVersion (Module type frtgr150lib:tgr150libVersion) in tgr40lib

frtgr150lib

Version:(2.2)

Date:Se EndringsHistorikk