

# KOSBOOST 2004


## CONFIGURATION IBIS R+

IBIS-VERSION 3.65

THIS DOCUMENTATION CONTAINS THE CONFIGURATION OF  
PROTRONIC 550 CONTROLLER:

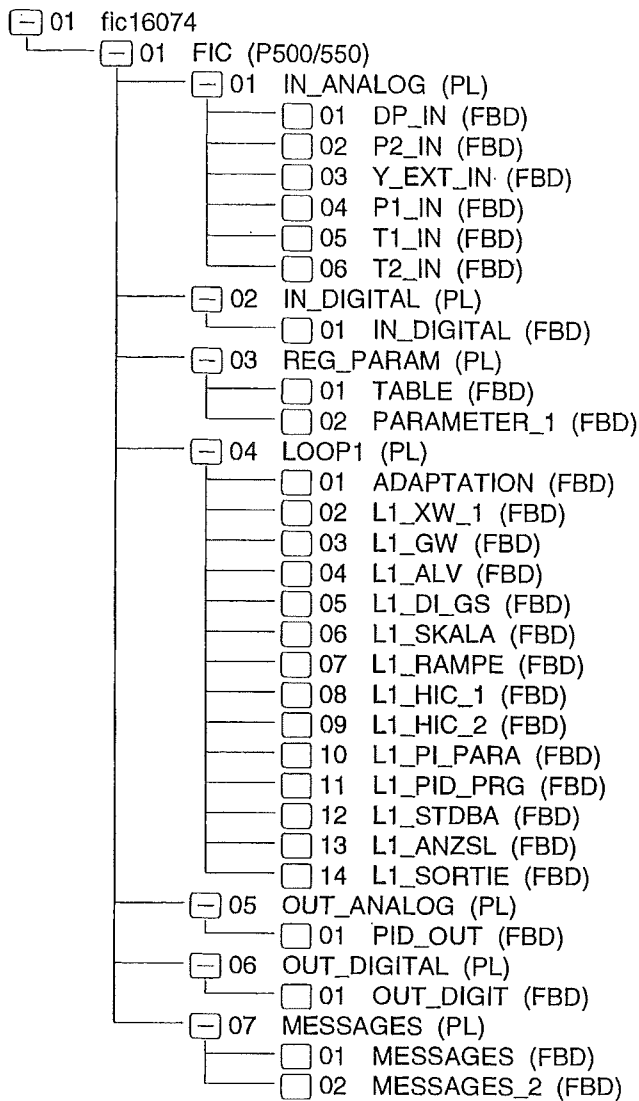
FIC 16074 (ANTISURGE CONTROL KOSBOOST)

CONTROLLER VERSION 1.206 M  
LIBRARY 3.3.6

				
N° D'AFFAIRE JOB NUMBER	FMT FMT	GROUPE GROUP	N° NBR	Rev Rev
KOSICE 50-3023-01	A4	612		

Rev.	Changed	Date	Checked	Date	Change no.	Change description
Rindlisbacher H		23.02.2005				
Issued		Date	Checked	Date	Released	Date
Type/Size:	RG 31-4				Project no.:	N.7100175
Description:	CONFIGURATION IBIS R+				Project:	KOSBOOST 2004
Document:	837019325	Type:	SPE	Part:	001	Rev.: Lang.: EN Page 0 of 33

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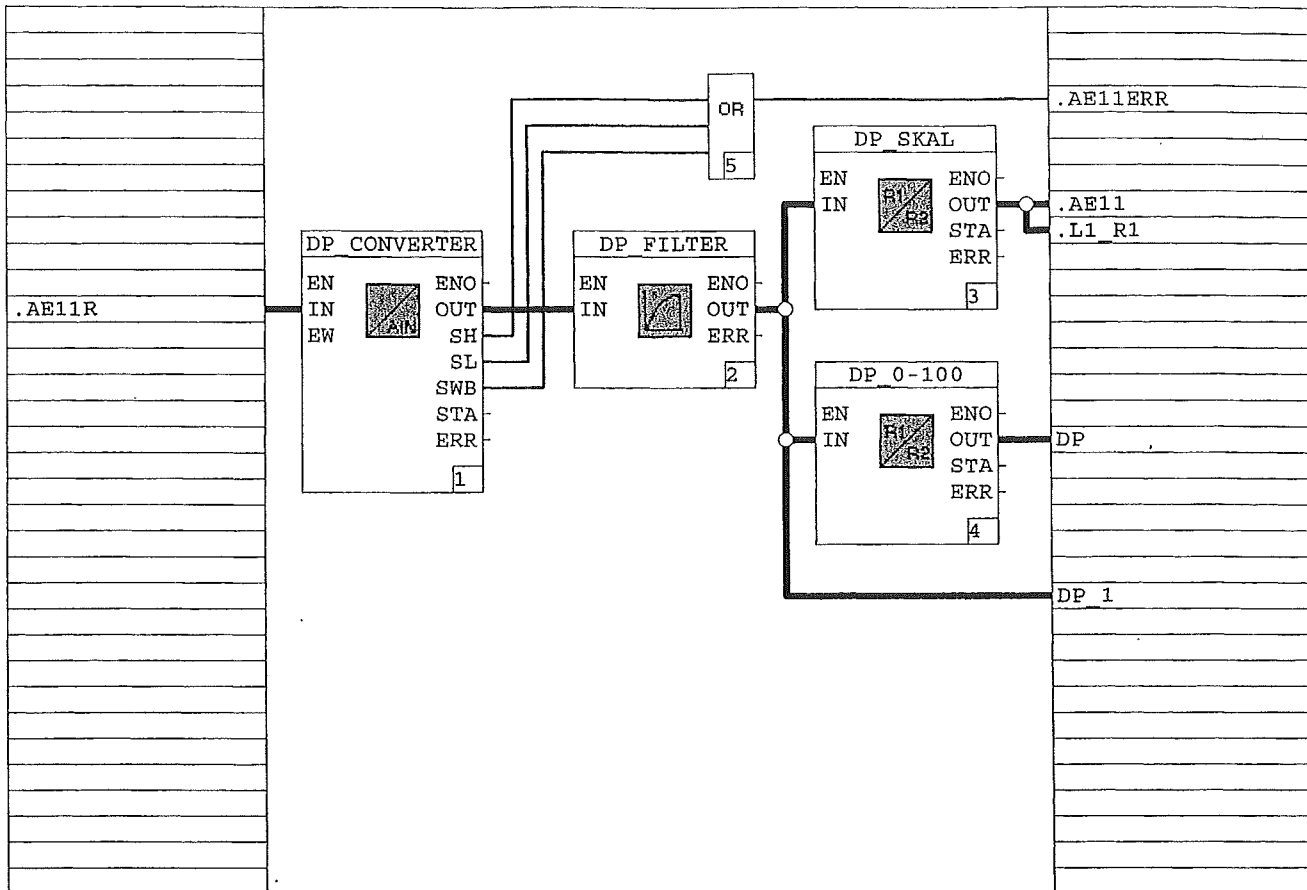


☐ 02 Pool

List of programmes documented below :

Design number	Typ	Designation
- .fic16074/X01/P01/B01-F	FBD	Read differential pressure tra
- .fic16074/X01/P01/B02-F	FBD	Read pressure transmitter
- .fic16074/X01/P01/B03-F	FBD	Input external manual loading
- .fic16074/X01/P01/B04-F	FBD	Read pressure transmitter
- .fic16074/X01/P01/B05-F	FBD	Read thermocouple
- .fic16074/X01/P01/B06-F	FBD	Read thermocouple
- .fic16074/X01/P02/B01-F	FBD	Read digital inputs
- .fic16074/X01/P03/B01-F	FBD	Table with line of interventio
- .fic16074/X01/P03/B02-F	FBD	Read parameters of regulation
- .fic16074/X01/P04/B01-F	FBD	Calculation of PI (P2/P1) and
- .fic16074/X01/P04/B02-F	FBD	Calculation of control deviati
- .fic16074/X01/P04/B03-F	FBD	Limits for intervention line s
- .fic16074/X01/P04/B04-F	FBD	Response line shift
- .fic16074/X01/P04/B05-F	FBD	Dynamic Intervention with sel
- .fic16074/X01/P04/B06-F	FBD	Scaling for analogue display
- .fic16074/X01/P04/B07-F	FBD	Ramp for automatic charge/disc
- .fic16074/X01/P04/B08-F	FBD	manual control
- .fic16074/X01/P04/B09-F	FBD	Limitation of manual control a
- .fic16074/X01/P04/B10-F	FBD	Seize of parameters Kp, Tn, Tv
- .fic16074/X01/P04/B11-F	FBD	Module PID controller
- .fic16074/X01/P04/B12-F	FBD	Switch mode of operation
- .fic16074/X01/P04/B13-F	FBD	Indication loops
- .fic16074/X01/P04/B14-F	FBD	Minimum selection of the contr
- .fic16074/X01/P05/B01-F	FBD	Controller analogue output
- .fic16074/X01/P06/B01-F	FBD	Out digital
- .fic16074/X01/P07/B01-F	FBD	Alarm text on controller displ
- .fic16074/X01/P07/B02-F	FBD	Alarm text on controller displ

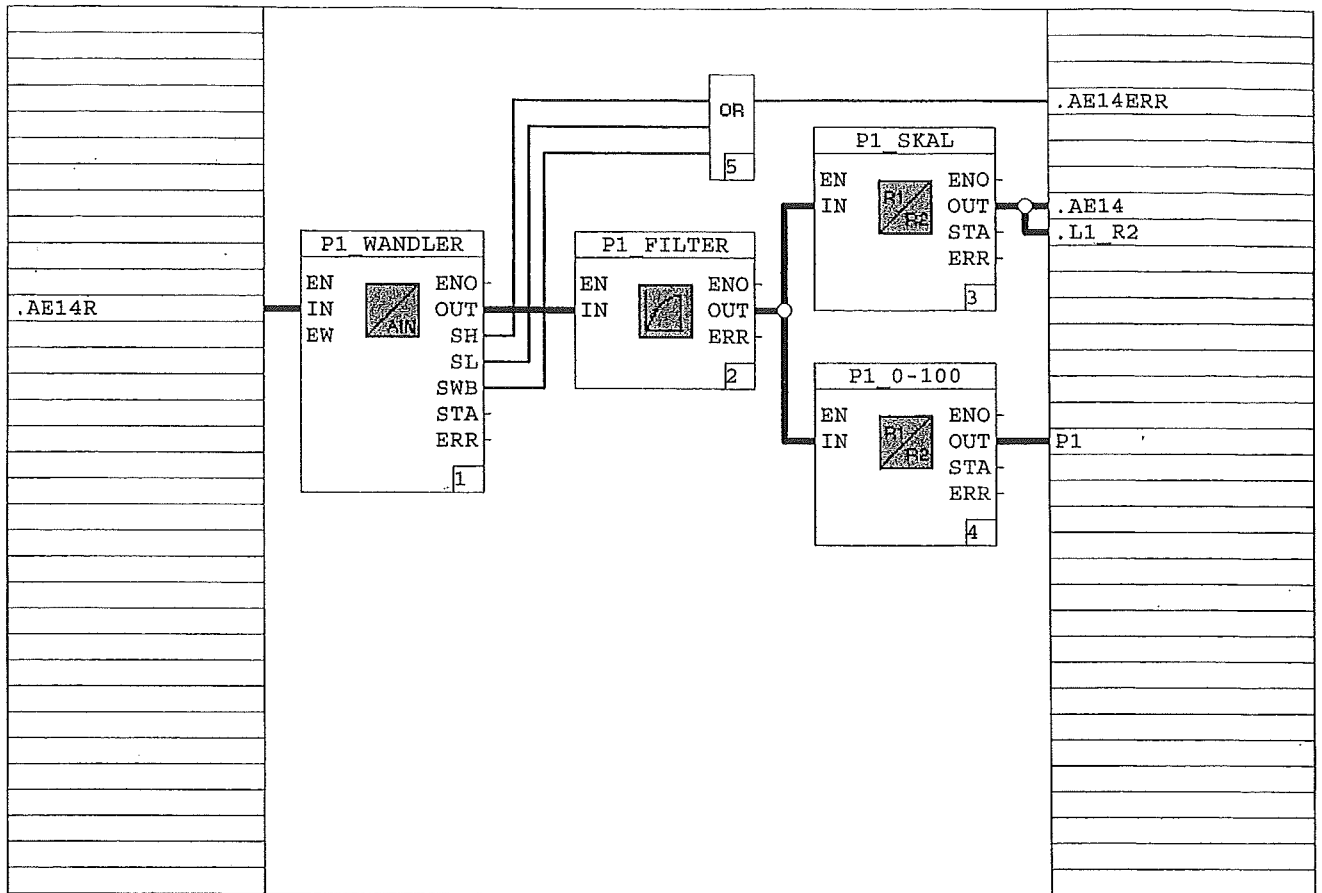
AN TURBO AG		Date	Name	Norm	Orig. 29.04.2005	Rep.f.	Rep.by	Basic Program	U./Protronic/Programs/Xc nboost	Customer	Z. No.	Item	Z. No.	P.



			Date	29.04.2005	N.7100175	Basic Program	DP_IN	customer	
			Proces	Rindliabacher	KOSBOOST 2004	U./Protonic/Program/Ko		2. No.	
			checke			abocost		ABB No.	ABB - .fic16074/X01/901/801-F
			Norm		Orig. 29.04.2005	Rep.f.	Rep.by	Item	2. No.
									P. 3

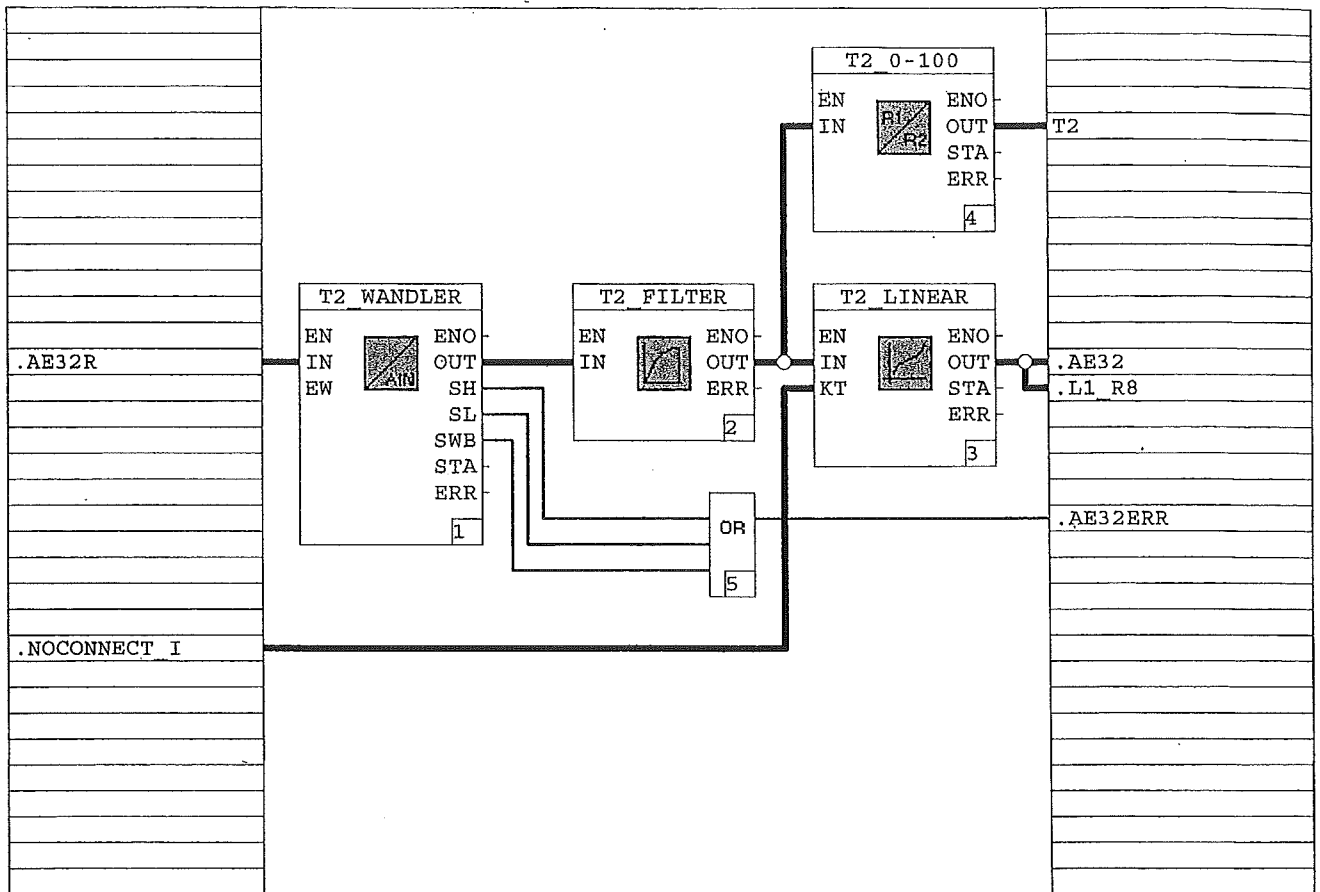








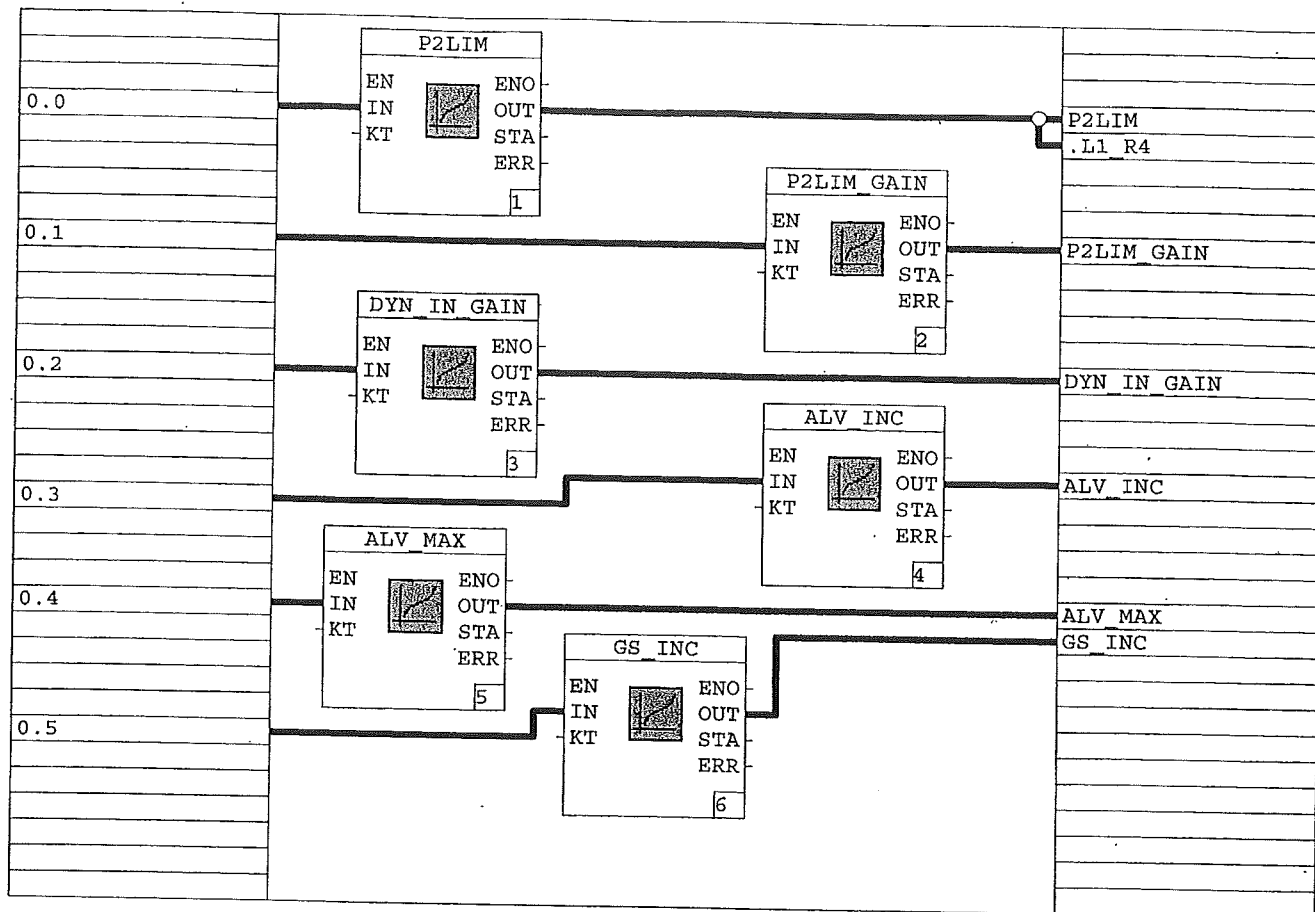




			Date	29.04.2005	N. 7100175	Basic Program	TI_IN	Customer	*
			Proced	Rindlinbacher	KOSBOOYT 2004	U./Pectronic/Programs/Ko		Z. No.	*
			Chacke			ebooet		ABB No.	ABB
								Item	..lic16074/X01/P01/B04-Y
			Date	29.04.2005	Orig.	Rep.f.	Rep.by	Z. No.	P. 1





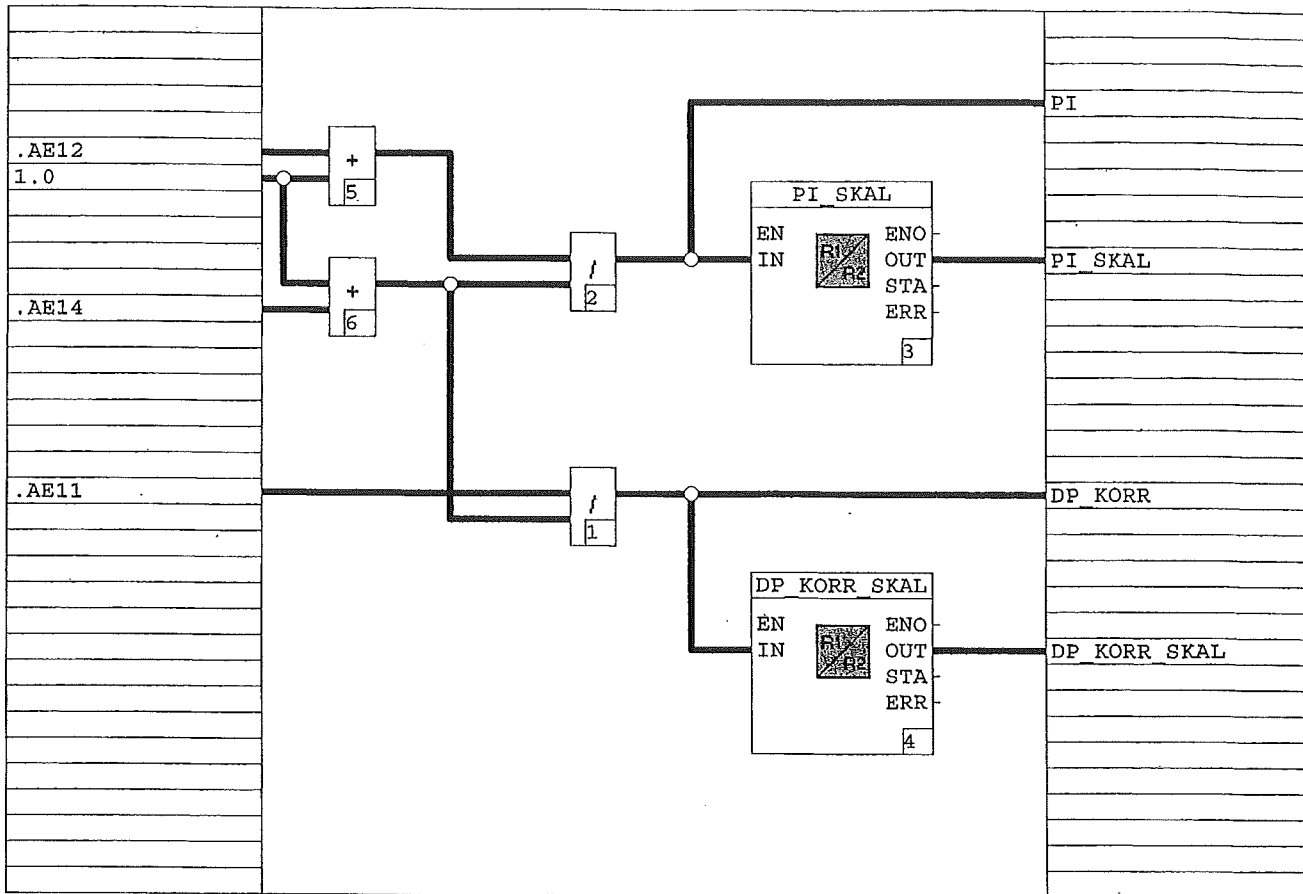


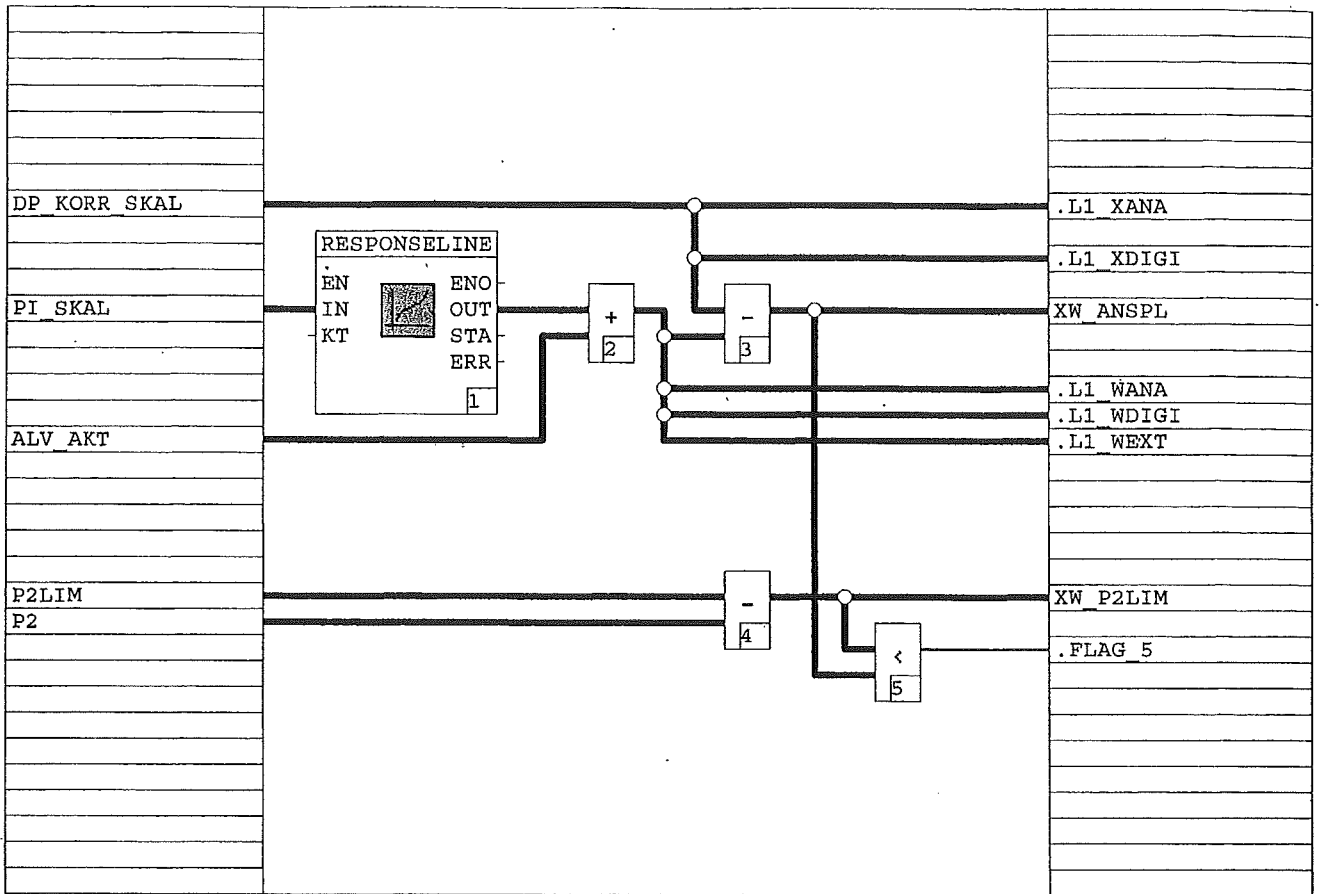
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				Process	Rindlacher	KOSBOOST 2004	U./Protonic/Program/Kr		Z. No.	
				Check			aboost		ABB No.	
				Date	29.04.2005	Rep.f.	Rep.by		Item	
				Norm					Z. No.	

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Werkstatt/Name	Date	Name	Werk	Urn	29.04.2005	Ben f	Ben hv	Customer	Z. No.	ADB No.	ABB	-	.f1c16074/X01/P04/B01-F	Item	Z. No.	P. 12
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		Checke						U:/Proctronic/Programs/Ko								
								stboost								

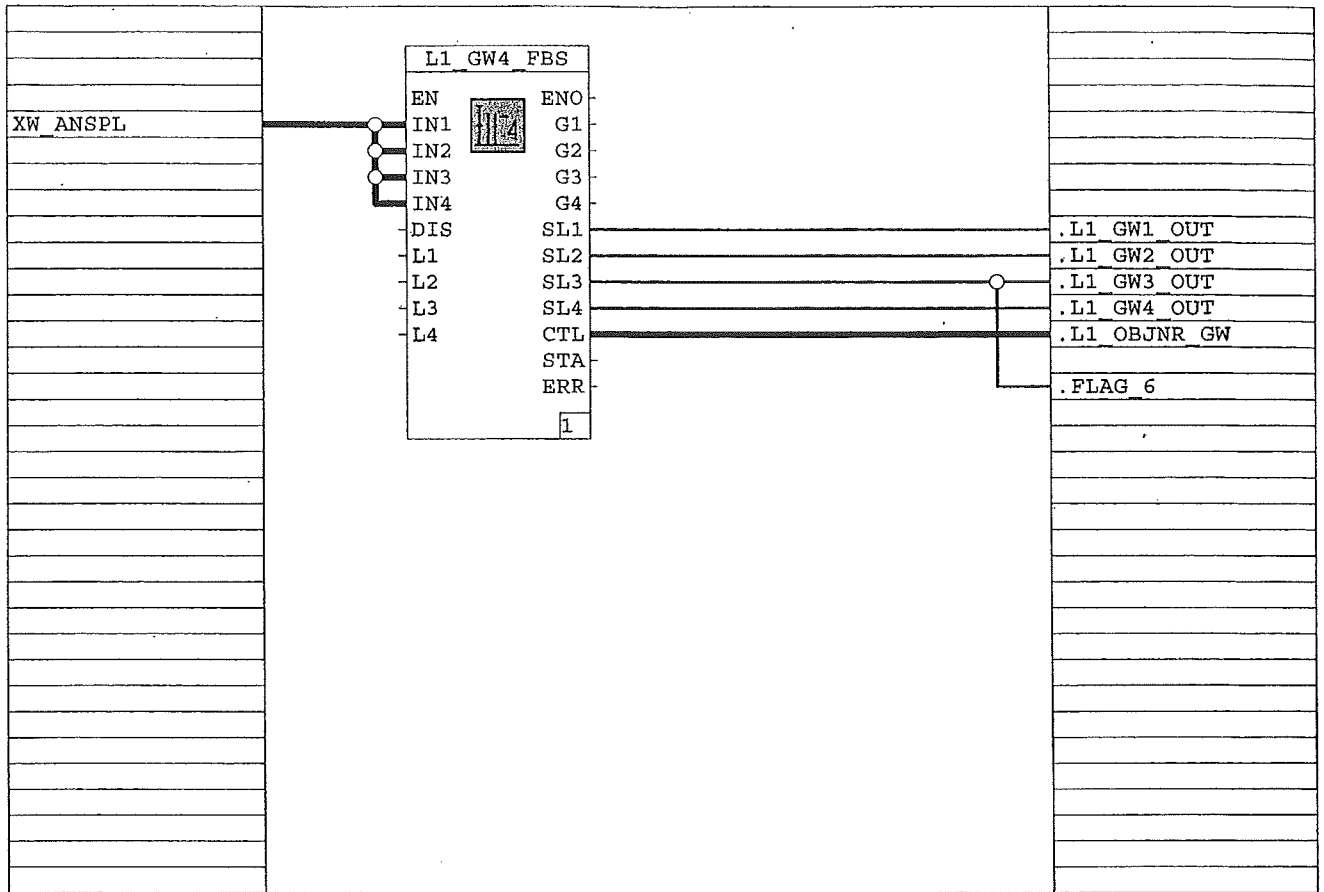




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Date	29.04.2005	N.7100175	Basic Program	bl_XM_1	Customer	*
Procure	Rindlisbacher	KOSROOST 2004	U1/Prottronic/Programs/Kc		Z. No.	*
Checke			shoost		ABB No.	.lic16074/X01/P04/B02-7
Date	Have	Norm	Orig. 29.04.2005	Rep.f.	Item	Z. No.
				Rep.by		P. 1.1

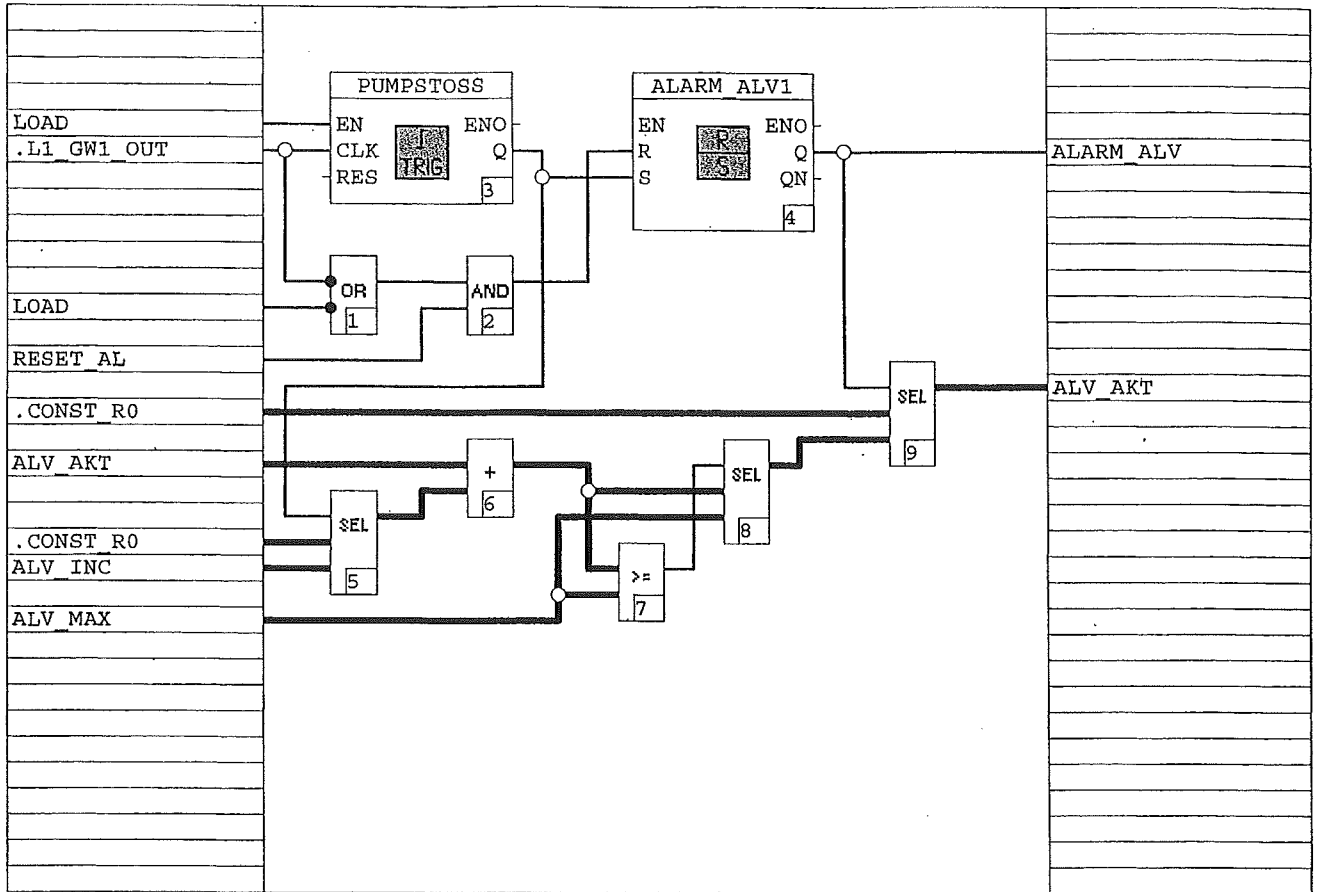
Claudia Patruno RRM4 SPE 837019325 001 00 18.07.2005



Date		29.04.2005	N.7100175		Basic Program		L1_GN		Customer		=
Process		Hindlischacher	KOCBOOST 2004		U1/Prottronic/Programs/Ko				Z. No.		*
Checke					oboost				ABB No.		-
Date		Name	Norm	Orig.	29.04.2005	Rep.f.	Rep.hy			.L1016074/X01/P04/B03-P	
								Item		Z. No.	P. 14

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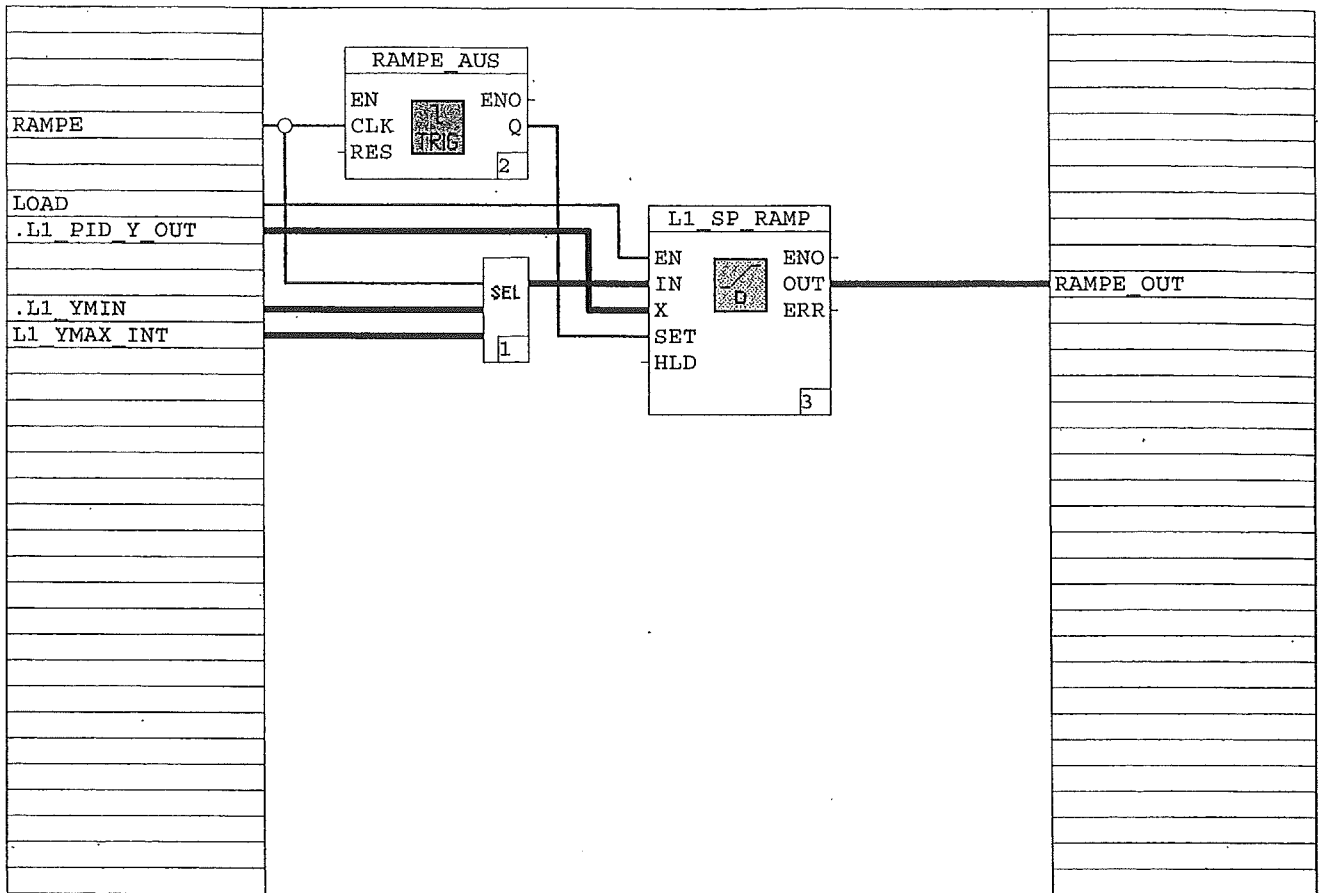
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Proces	Hindlisbacher	KOSBOOST 2004	U./Proctronia/Programs/Kc		Z. No.	*
Checke			abooat		ABB No.	ABB - .fic16074/X01/804/804-F
Date	Name	Norm	Orig. 29.04.2005	Rep.f.	Rep.by	Item
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						P. 1

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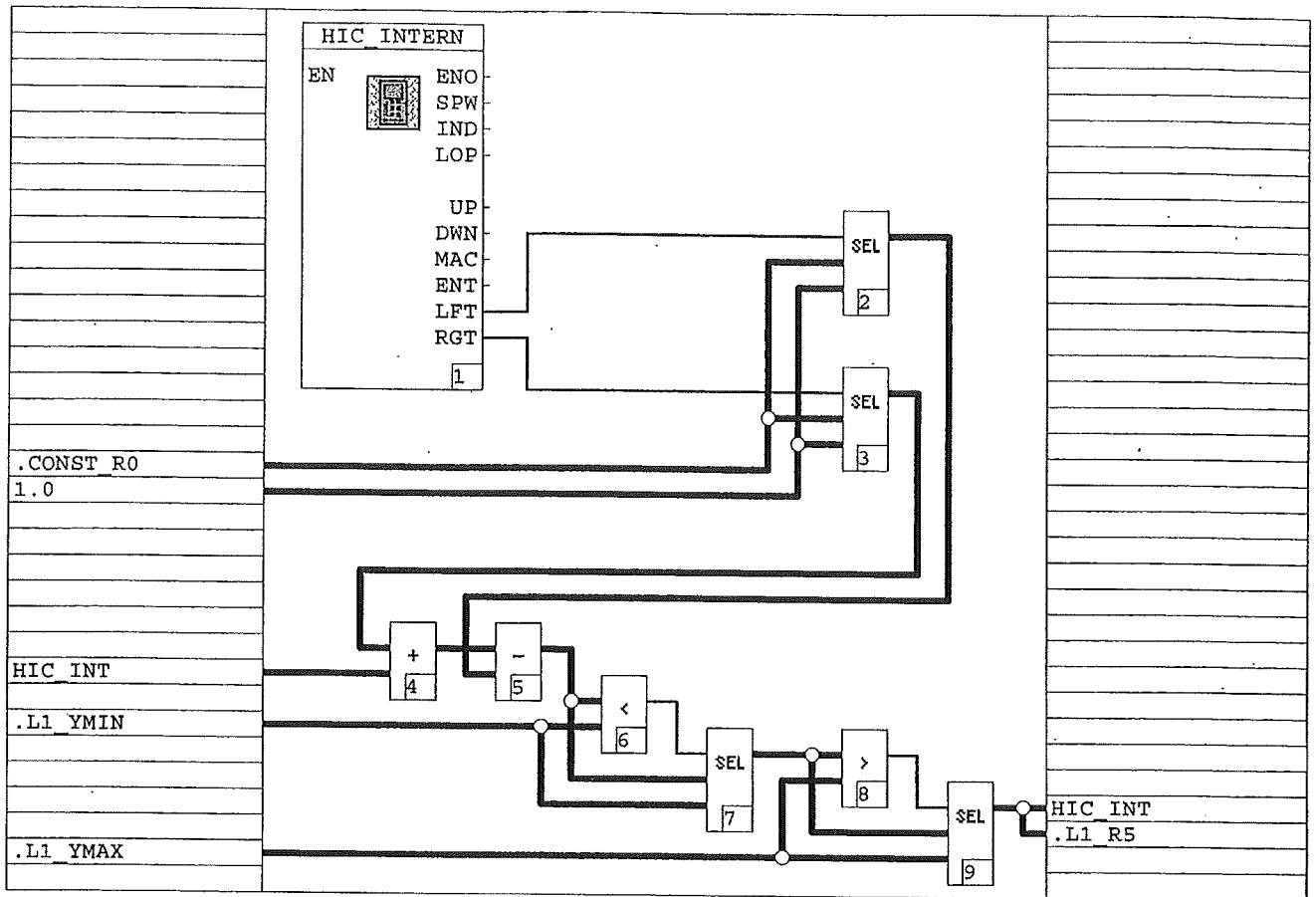




				Date	29.04.2005	N.7100175	Basic Program	L1_RAMPE	Customer		
				Process	Rindlischacher	KOSBOOGST 2004	U:/Protonic/Programs/Ko		Z. No.		
				Checke			oboozt		ABB No.	ABB	.f1c16074/X03/P04/B07-V
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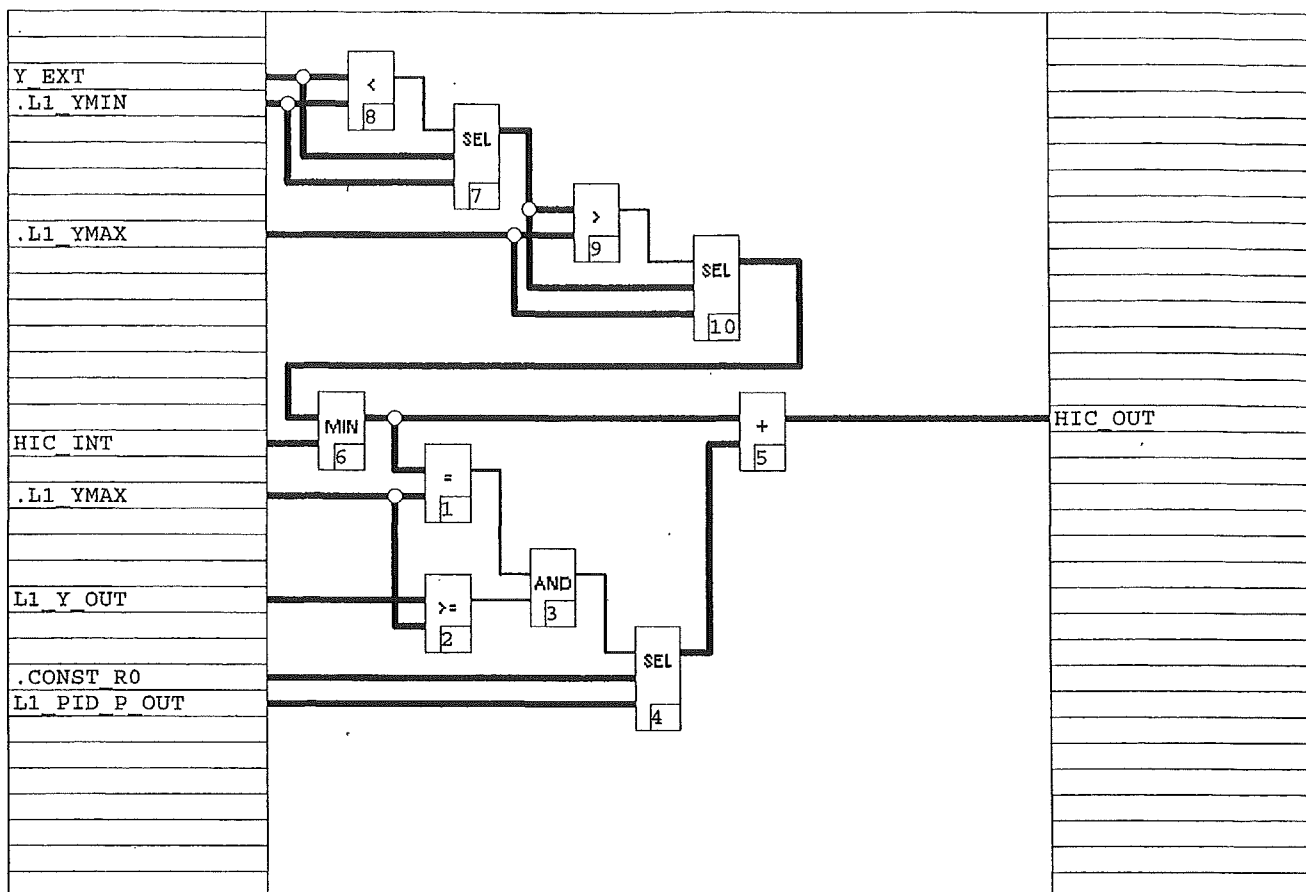
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				Date	29.04.2005	N.7100175	Basic Program	Li_MIC_1	Customer	*
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				Checke			sboost		ABB No.	ABB - .fisc16074/X01/P04/B04-P
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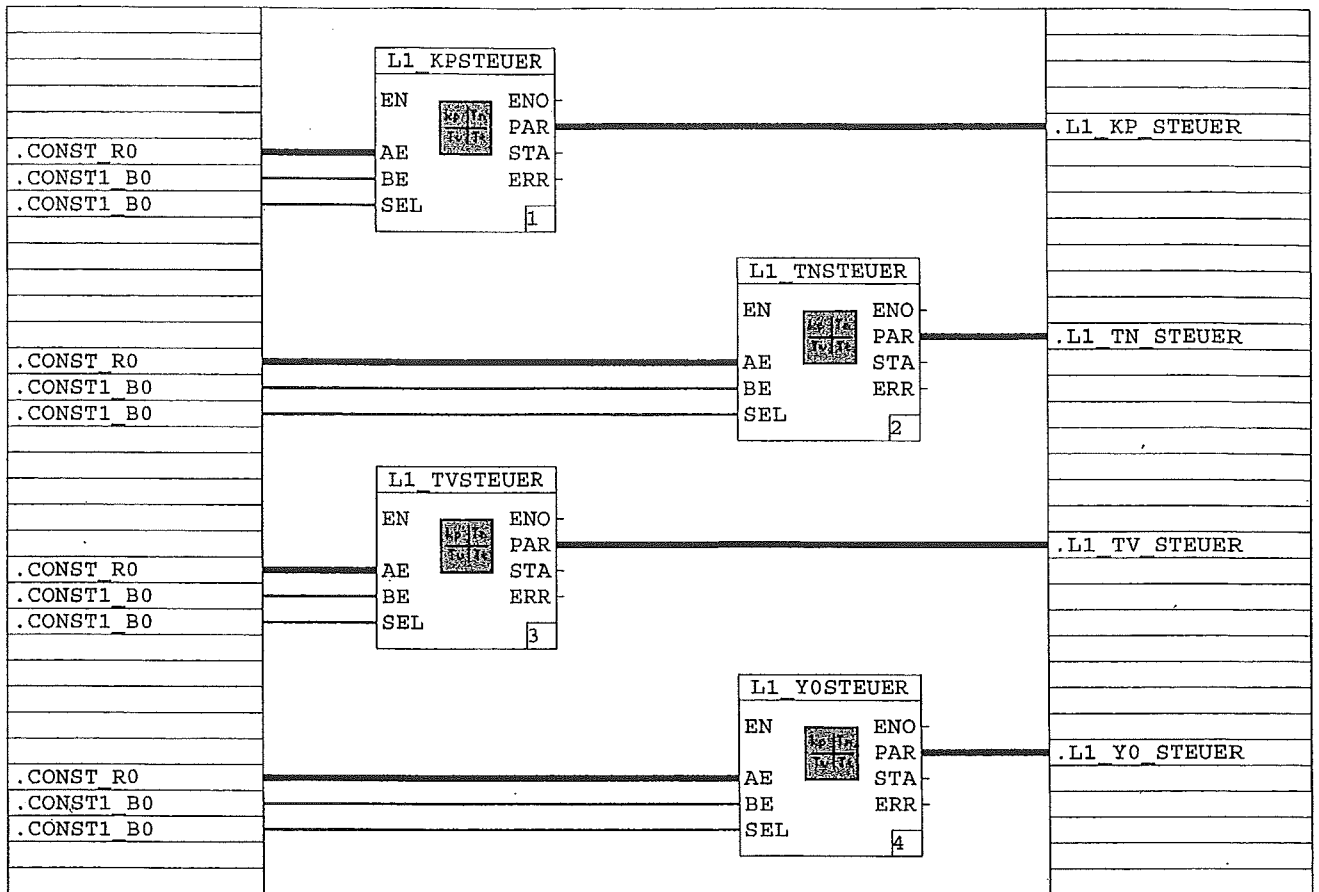
Claudia Patrino RRM4 SPE 837019325 001 00 18.07.2005



			Date	29.04.2005	M.7100175	Basic Program	LA_MIC_2	Customer	=	
			Process	Rindlinbacher	KO8ROOST 2004	U:/Protronica/Programs/Ko		Z. No.	+	
			Checke			sboost		ABB No.	ABB	.fsc1e074/X01/P04/B09-F
			Date	Name	Norm	Orig. 29.04.2005	Rep.f.	Item	Z. No.	F.
						Rep.by				

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Claudia Patrino RRM4	SPE 837019325 001 00	18.07.2005
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				Date	29.04.2005	N.7100175	Basic Program	L1_PI PARA	Customer	*
				Process	Rindlacher	KOSBOOST 2004	U1/Prototron/Program/Ko		Z. No.	*
				Checke			aboost		ABB No.	ABB - .L1C16074/X01/P04/B10-P
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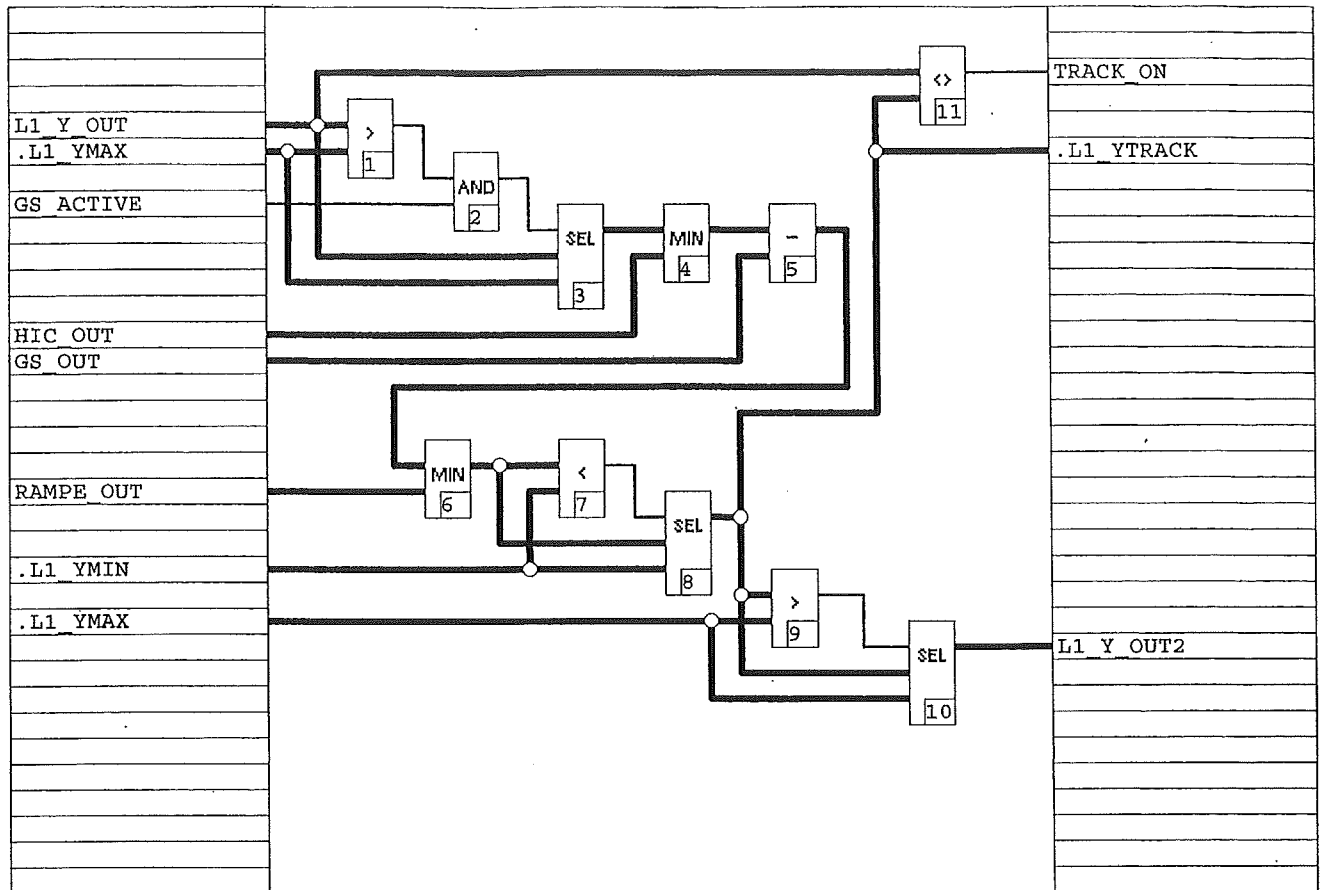
Claudia Patruno RRM4 SPE 837019325 001 00 18.07.2005







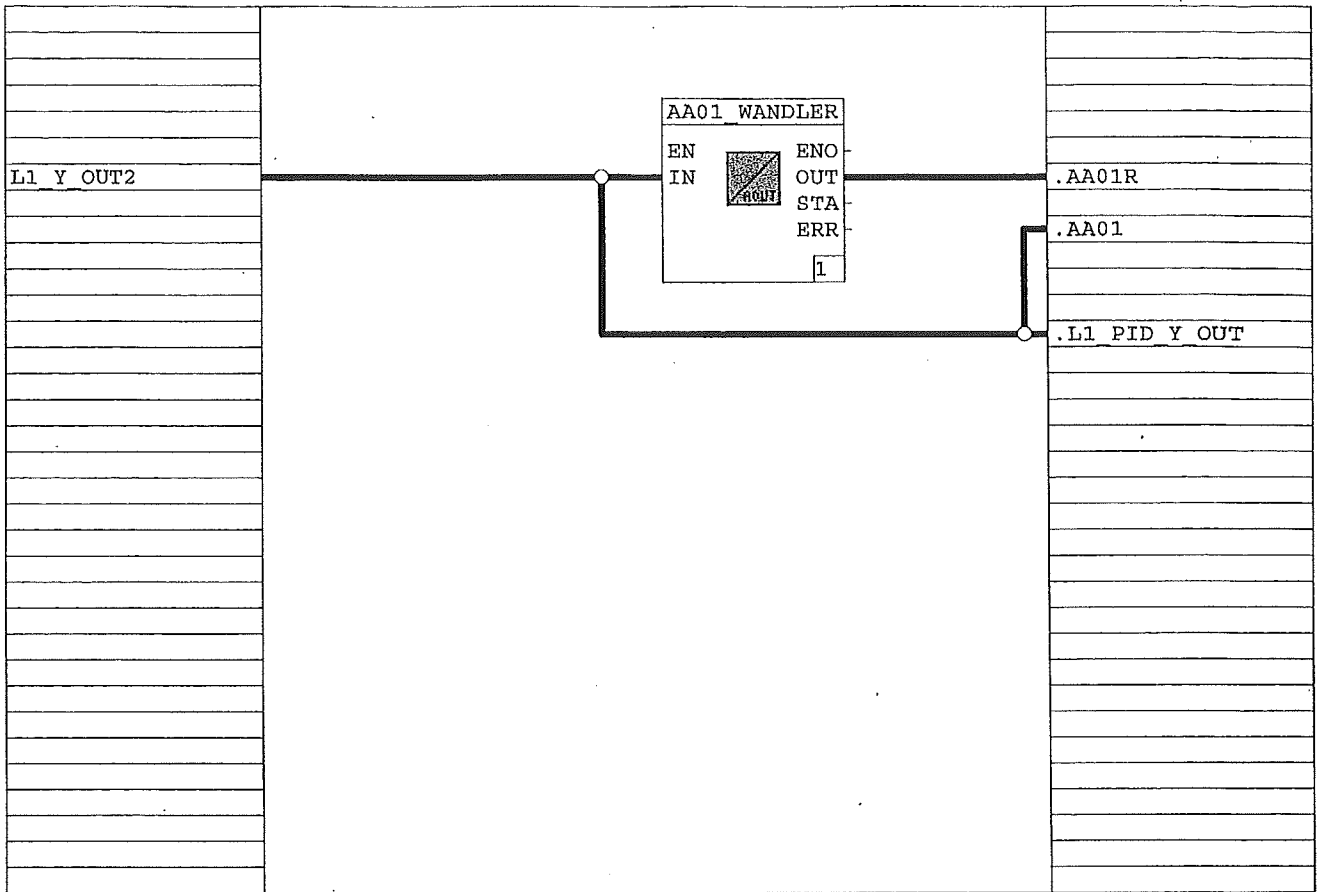




			Date	29.04.2005	N.7100175	Basic Program	Li_SORTIR	Customer		
			Proces	Hindisbacher	KOSBOOST 2004	U:/Protzonic/Programs/Ko		Z. No.		
			Checke			aboost		ABB No.	ABB	.Efc16074/X01/P04/B14-P
								Item	Z. No.	P. 2

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				Date	29.04.2005	N.7100175	Basic Program	PID_OUT	Customer	
				Process	Rindlibacher	KOSBOOST 2004	U:/Protronio/Programa/Xo		Z. No.	
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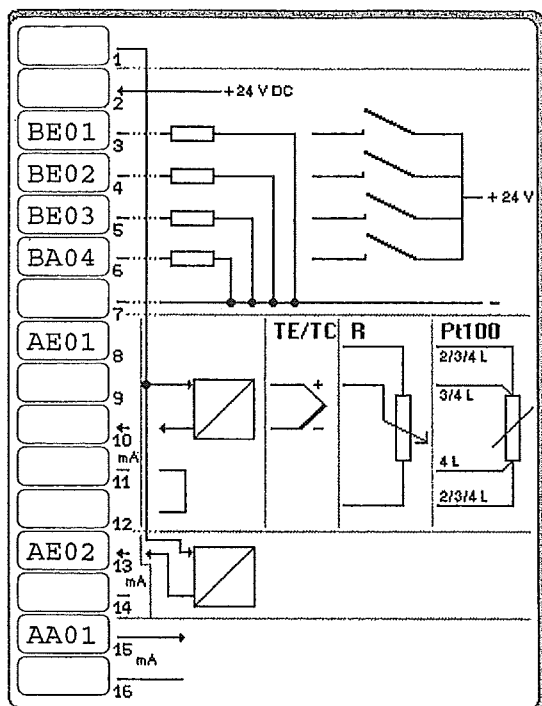
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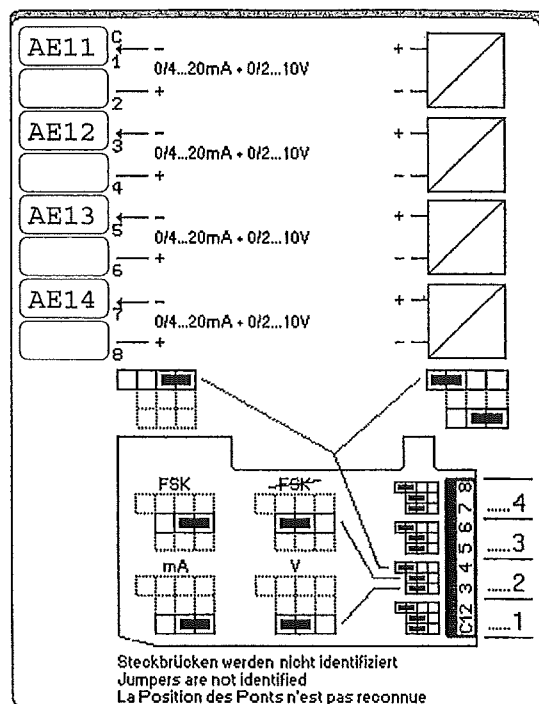


Standard instrument:



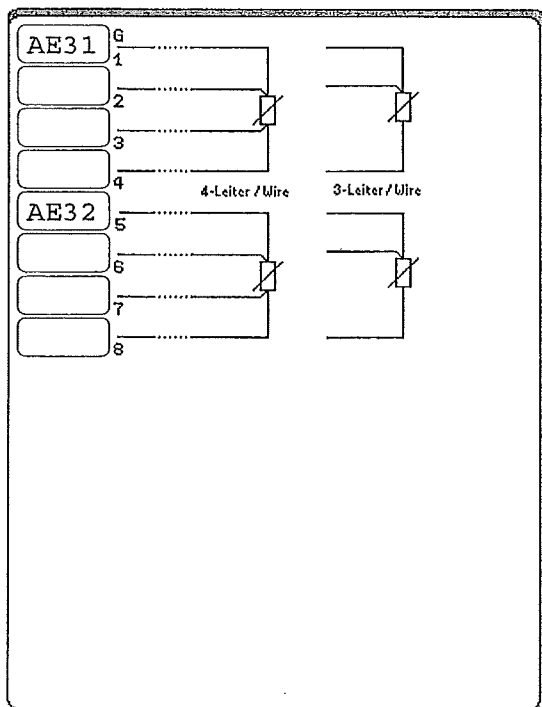
Module slot 1:

AI 4 \* mA with TPS



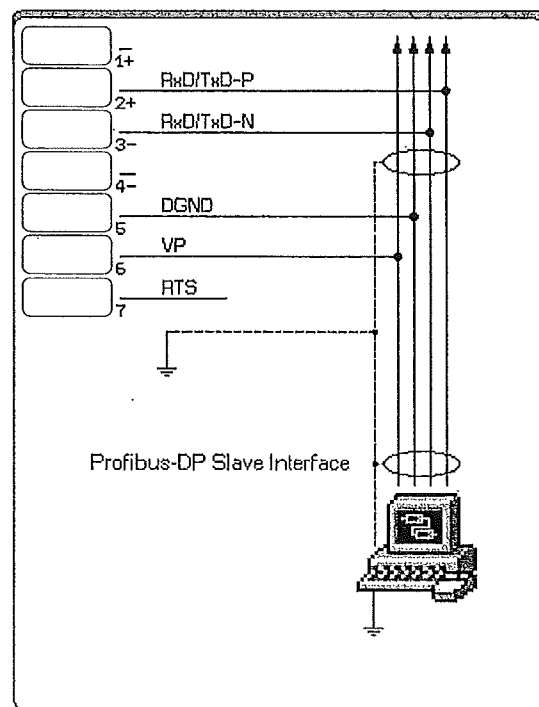
Module slot 3:

AI Pt100 2\*3/4 wire

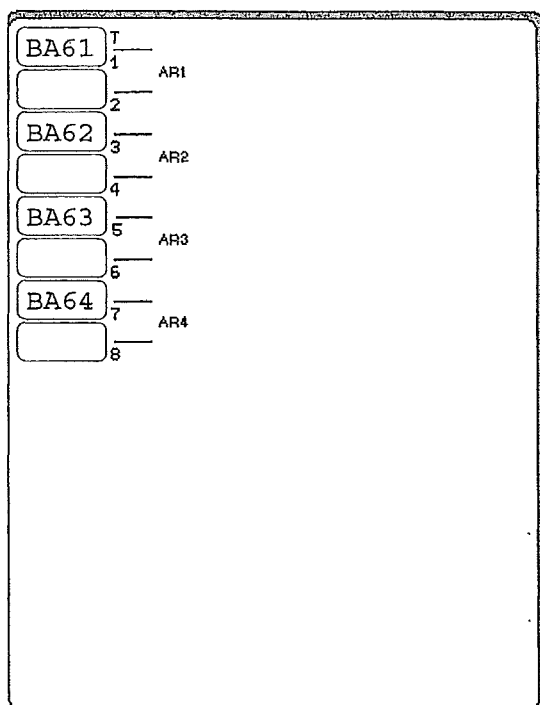


Module slot 5:

Profibus-DP Slave



BO 4 \* relay



		Date	M.7100175	Basic Program	Customer	=	
		Process	XDSBOOST 2004	Uz/Protronic/Programs/Kc	Z. No.	*	
		Checke		shoot	ABB No.		ABB
		Date	Orig. 29.04.2005	Rep.f.	Item		Z. No.
		Name		Rep.by			P.
		Norm					



# Device configuration

## Languages

B01-Q01: Language: 2 - English

## Binary inputs

B02-Q01: Lock-out, confi & param. menus: 0 - # not by BI

B02-Q02: Block all control actions: 0 - # not by BI

B02-Q03: Alarm acknowledgement: 0 - # not by BI

B02-Q04: Locking Menu-Key: 0 - # not by BI

## Remote control

B04-Q01: Remote control: 1 - # LOCAL only

## Alarm management

B10-Q01: Text/Alarm display: 1 - on the front panel

B10-Q02: Acknowledgement: 0 - # none

## Set Module type

B12-Q01: Slot 1: 25 - Analoginput 4\*mA+SUP

B12-Q02: Slot 2: 0 - # unoccupied

B12-Q03: Slot 3: 35 - Pt100 2-fold

B12-Q04: Slot 4: 0 - # unoccupied

B12-Q05: Slot 5: 4 - Profibus DP Slave module

B12-Q06: Slot 6: 70 - Relay 4-fold

B12-Q07: Slot 7: 0 - # unoccupied

## Password

B20-Q01: Password: 2 - on + 30 sec.

B20-P02: Password: 2004

## Communication

B30-P01: Modbus-Address: 1

B30-Q02: Baud rate: 9 - 57600

B30-Q03: Protocol: 2 - # Modbus RTU

B30-Q04: Parity: 2 - # even

B30-Q05: Time out: 1 - # 1 sec.

B30-P06: Profibus-DP-Slave address: 1

B30-Q07: Default\_CFG\_I: 0 - # not used

B30-Q08: Default\_CFG\_O: 0 - # not used

B30-Q09: Time out for: 1 - # Modbus

## Configuration loop 1

### Control function

B01-Q01: Control function: 1 - # Single loop controller

B01-Q04: Position feedback signal: 0 - # none

B01-Q05: Selftune: 0 - # off

### Setpoints

B05-Q09: Setpoint display: 1 - # Target setpoint

### Display

B06-Q01: Time period in trend window: 1 - # 75 seconds

## Configuration loop 2

### Control function

B01-Q01: Control function: 0 - # unused

B01-Q04: Position feedback signal: 0 - # none

B01-Q05: Selftune: 0 - # off

## Configure AI

### Analog input 01

B01-Q01: Signal type: 2 - # 4..20mA

### Analog input 02

B02-Q01: Signal type: 2 - # 4..20mA

				Date	29.04.2005	N.7160175	Basic Program	configuration list	Customer	
				Process	Rindlisbacher	KOSBOOST 2004	Us/Prottronic/Programs/Ko		Z. No.	
				Checke			shoost		ABB No.	ABB
				Date	Name	Norm	Orig. 29.04.2005	Rep.E.	Item	Z. No.
							Rep.by			

Analog input 11  
 B11-Q01: Signal type: 2 - 4..20mA  
 B11-Q15: Frequency input: 4 - # DIN 19240 pos.

Analog input 12  
 B12-Q01: Signal type: 2 - 4..20mA  
 B12-Q15: Frequency input: 4 - # DIN 19240 pos.

Analog input 13  
 B13-Q01: Signal type: 2 - 4..20mA  
 B13-Q15: Frequency input: 4 - # DIN 19240 pos.

Analog input 14  
 B14-Q01: Signal type: 2 - 4..20mA  
 B14-Q15: Frequency input: 4 - # DIN 19240 pos.

Analog input 31  
 B31-Q01: Signal type: 5 - Pt100 3-wire  
 B31-Q15: Frequency input: 4 - # DIN 19240 pos.

Analog input 32  
 B32-Q01: Signal type: 5 - Pt100 3-wire  
 B32-Q15: Frequency input: 4 - # DIN 19240 pos.

#### Configure AO

Analog output 01  
 B01-Q01: Signal type: 2 - # 4..20mA

#### Configure binary I/O

binary-input/output 01  
 B01-Q01: Signal type: 1 - # Binary input, control action, direct

binary-input/output 02  
 B02-Q01: Signal type: 1 - # Binary input, control action, direct

binary-input/output 03  
 B03-Q01: Signal type: 1 - # Binary input, control action, direct

binary-input/output 04  
 B04-Q01: Signal type: 3 - Binary output, normally open (0)

binary-input/output 61  
 B61-Q01: Signal type: 3 - Binary output, normally open (0)

binary-input/output 62  
 B62-Q01: Signal type: 3 - Binary output, normally open (0)

binary-input/output 63  
 B63-Q01: Signal type: 3 - Binary output, normally open (0)

binary-input/output 64  
 B64-Q01: Signal type: 3 - Binary output, normally open (0)

#### Online parameter loop 1

Selftune  
 P125: Max output bump: 5.0  
 P126: Max bump duration: T#00h00m15s  
 P127: Max +PV bump: 99999.0  
 P128: Max -PV bump: 99999.0

Tag name  
 P199: Tag name: FIC 16074

			Date	29.04.2005	N. 7100175	Basic Program	Configuration list	Customer	
			Process	Rindlbacher	KOSBOOST 2004	U./Protetric/Programa/Kc		Z. No.	
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