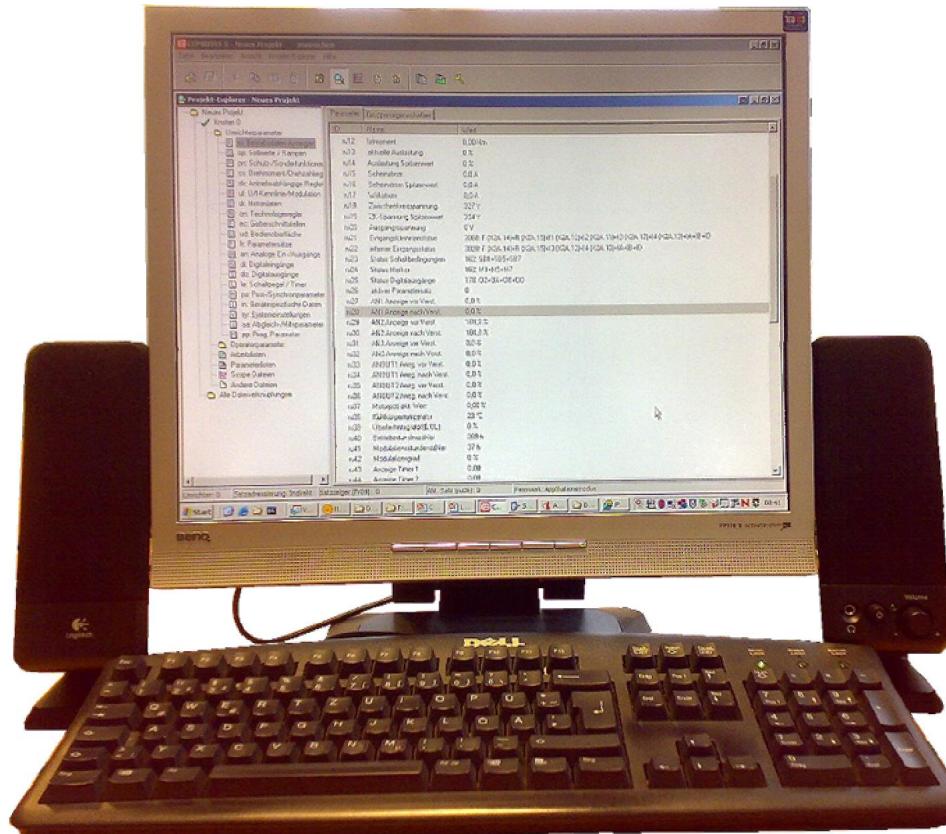
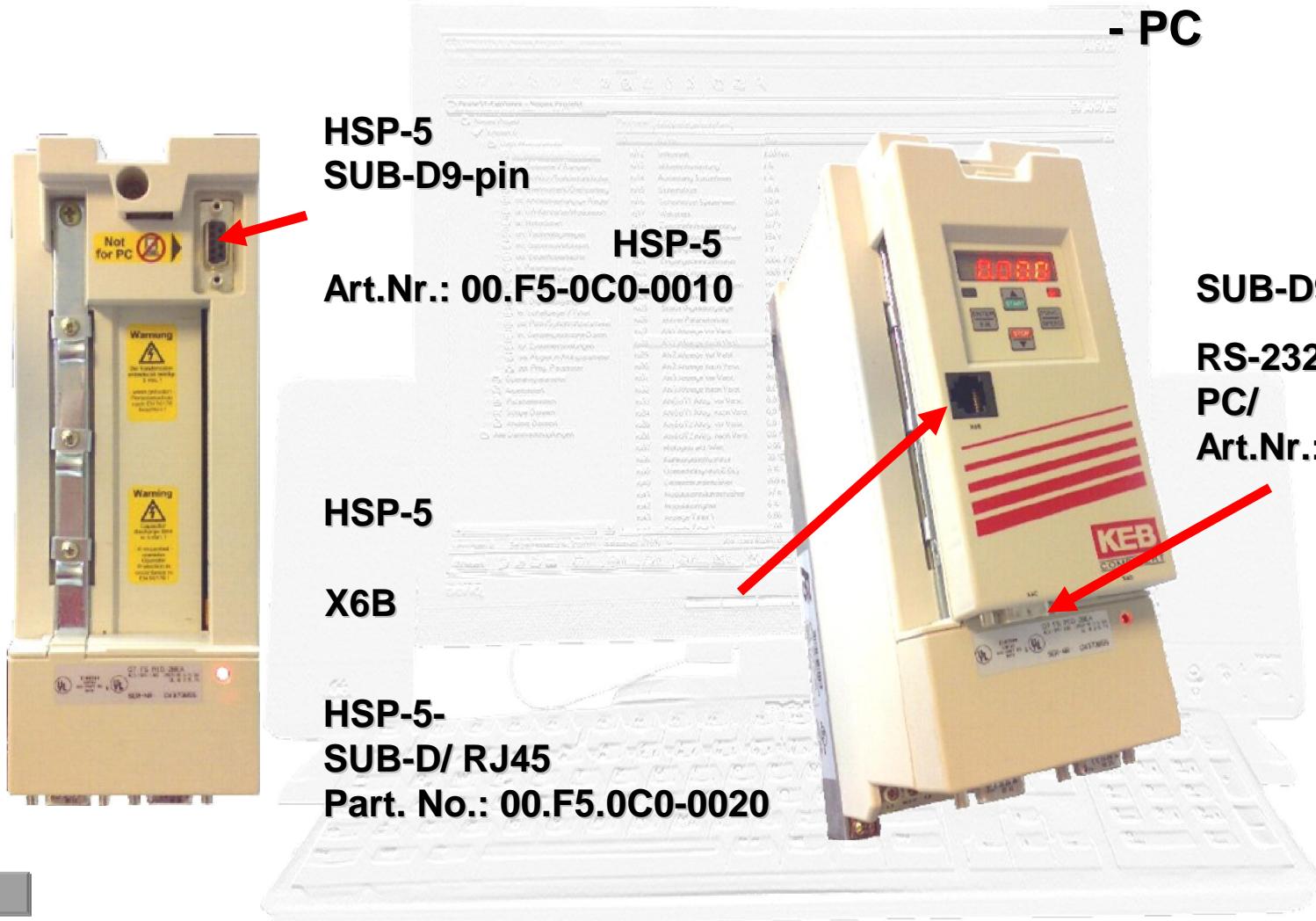
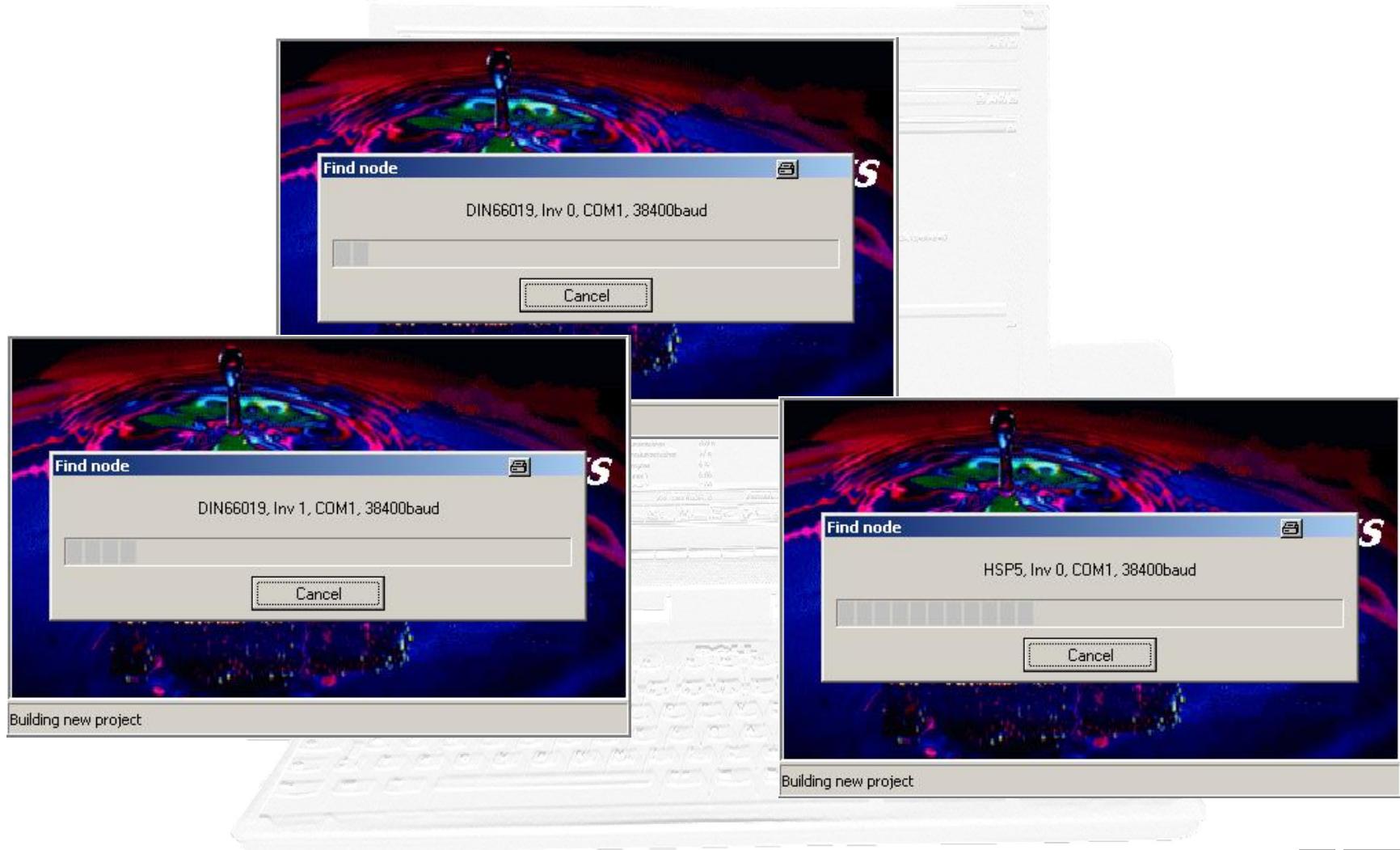


KEB COMBIVIS









Ethernet-1

/IP" IP -
IP"

Configuration

Default project	Common	Parameter text	DIN 66019
HSP5	<input checked="" type="radio"/> IP	CAN	ProfiBus

Host:

Port:

Time-out-value(ms):

TCP
UDP

Driver info

OK Cancel

Configuration

HSP5	IP	CAN	ProfiBus
Default project	Common	Parameter text	DIN 66019

Protocols:

DIN 66019 Interbus CAN
 HSP5 IP Profibus

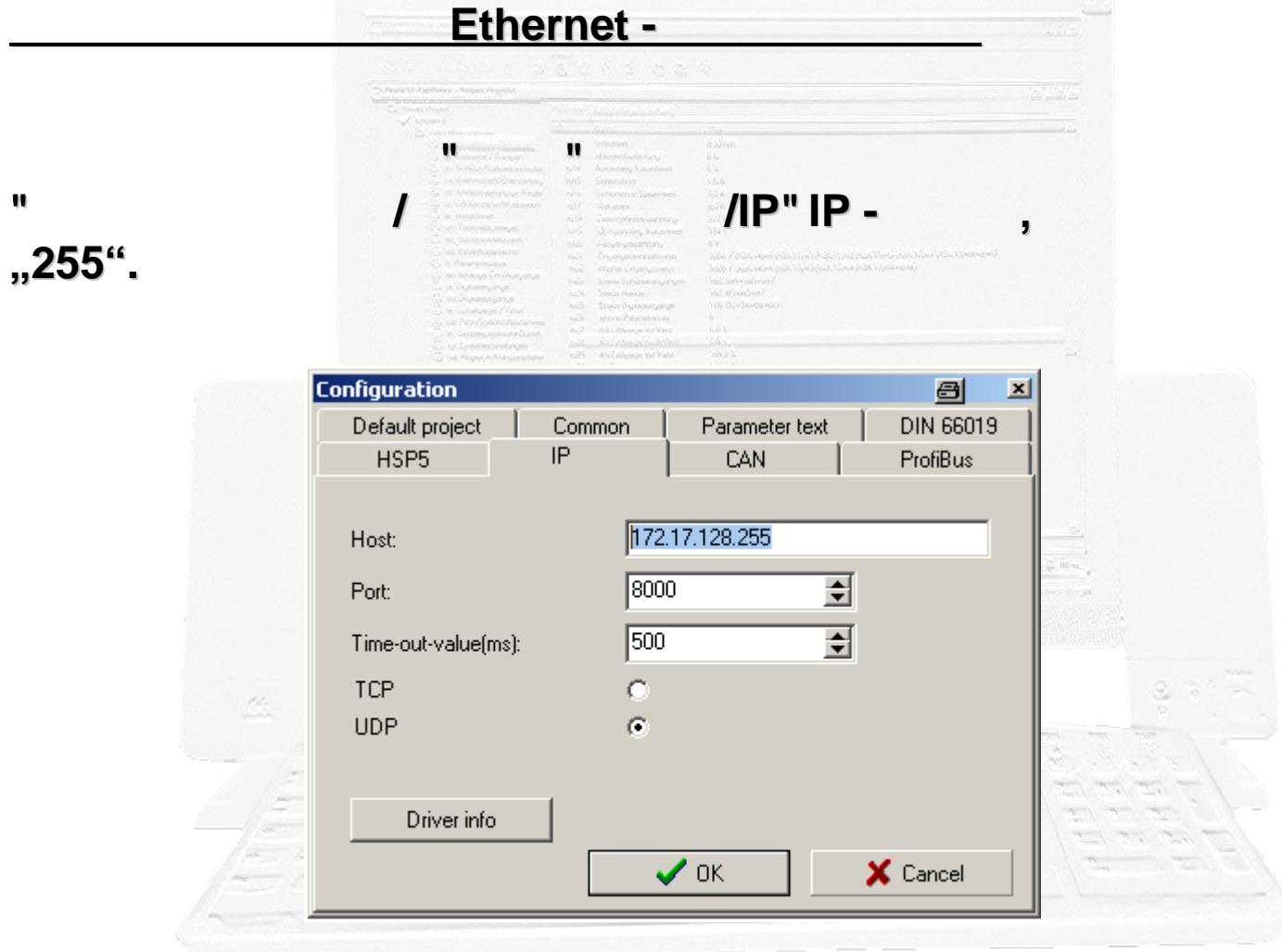
Address range:

Min. Addr.: Max. Addr.:

Control interval:

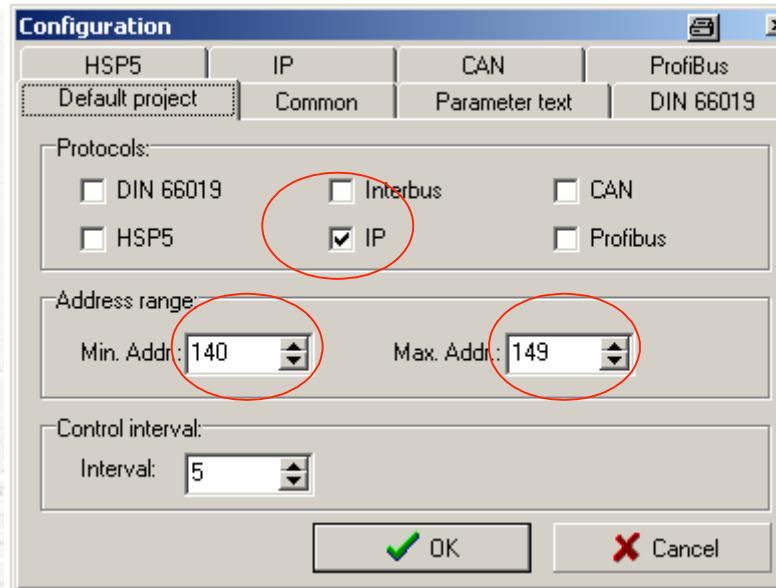
Interval:

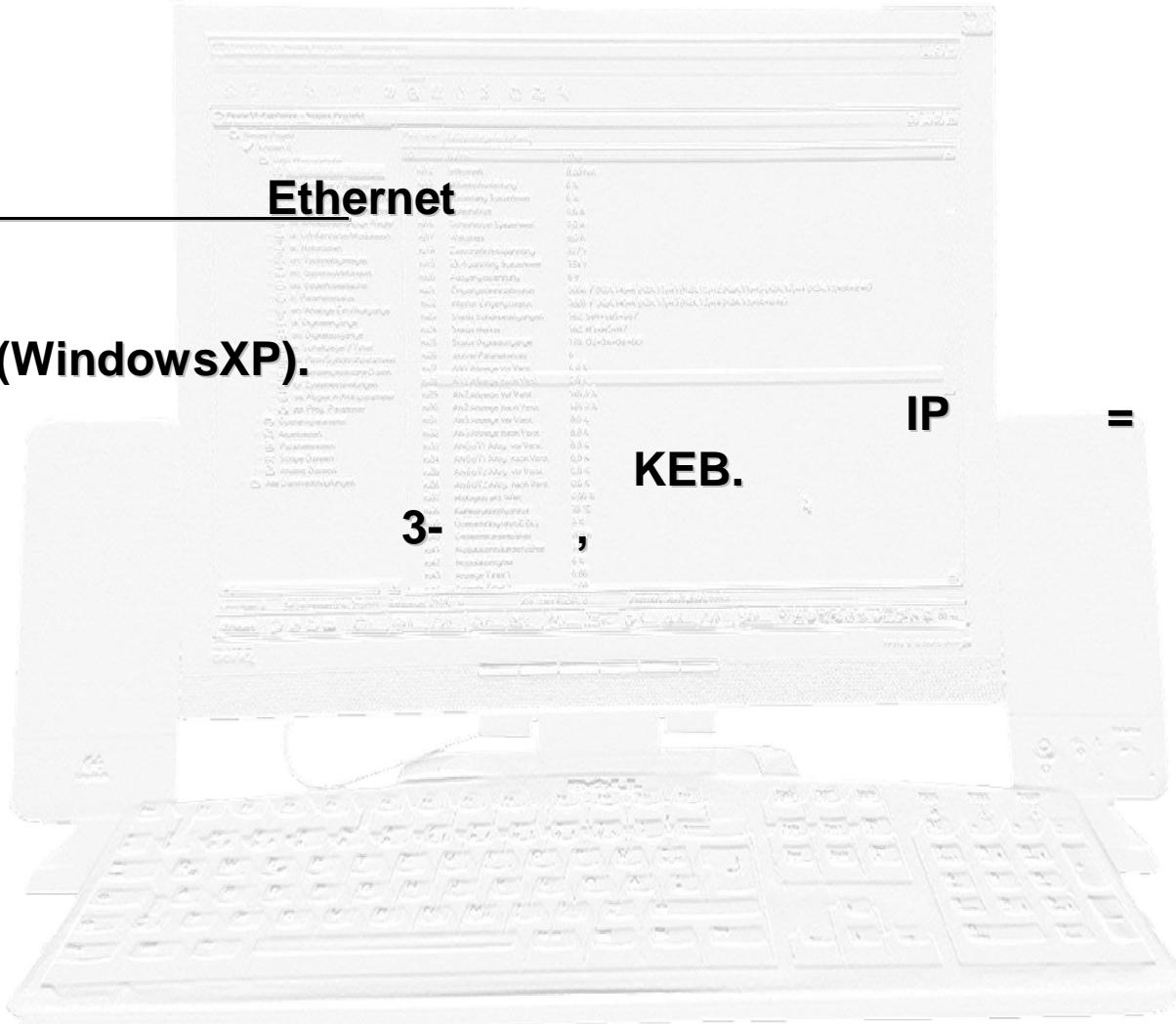
OK Cancel

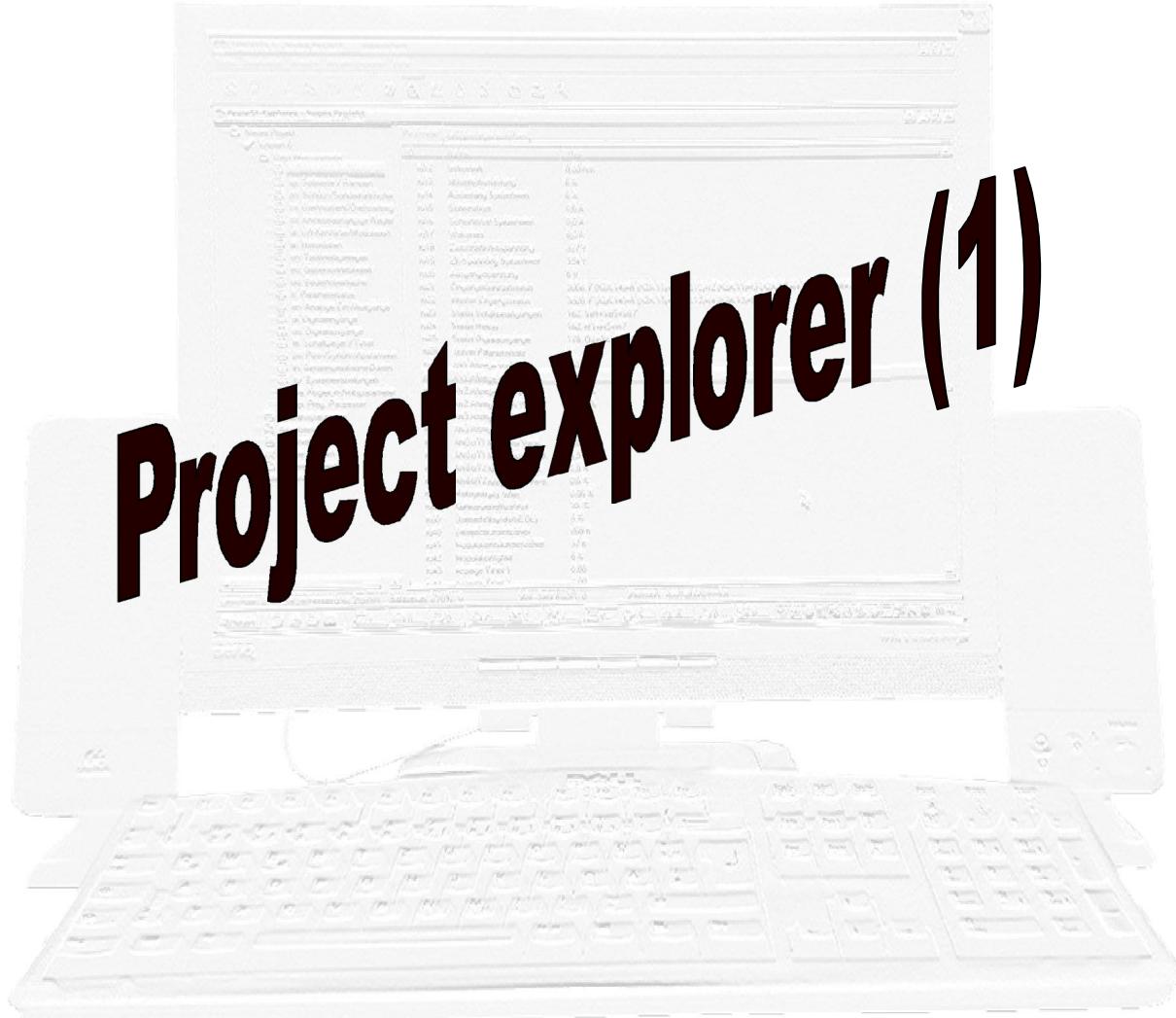


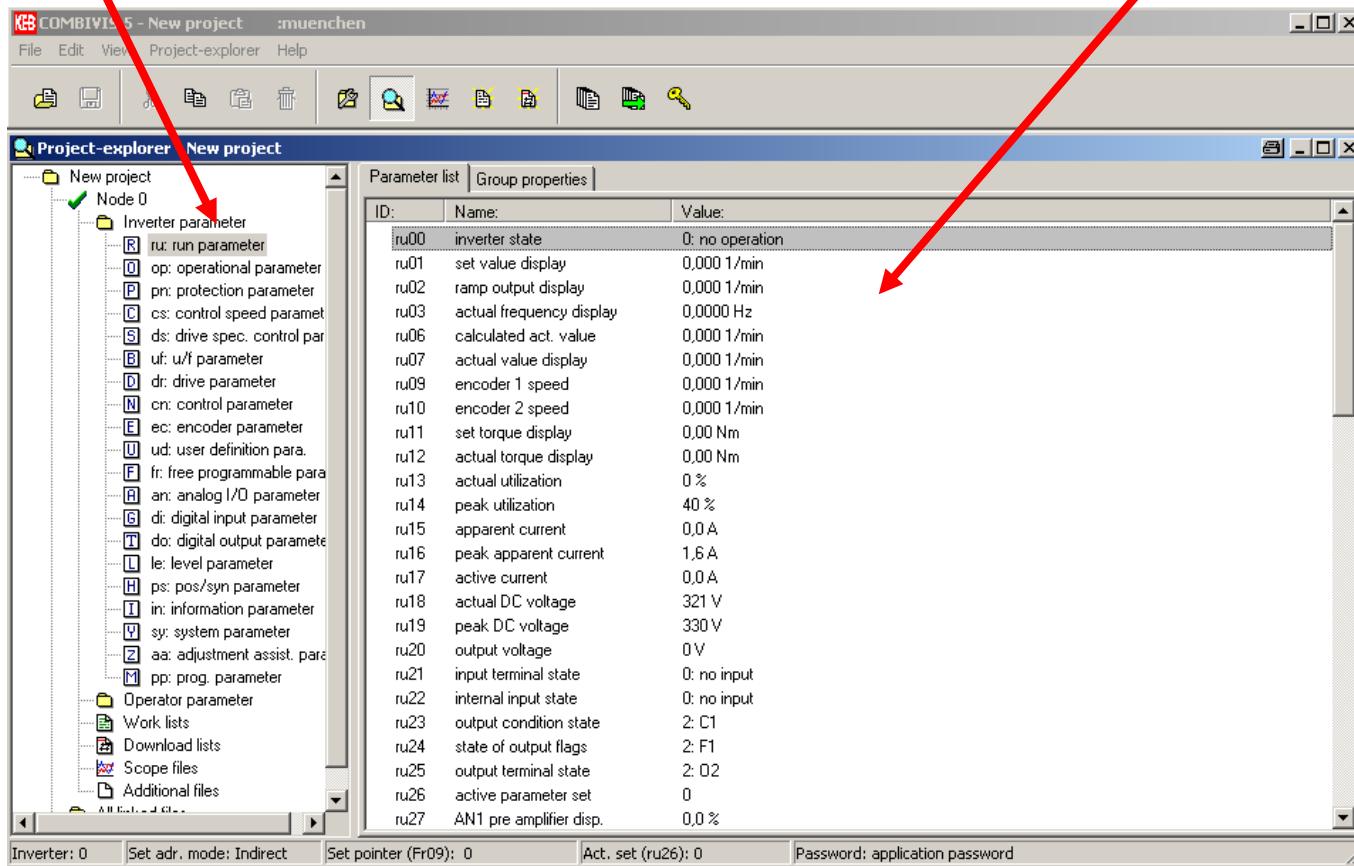
Ethernet -

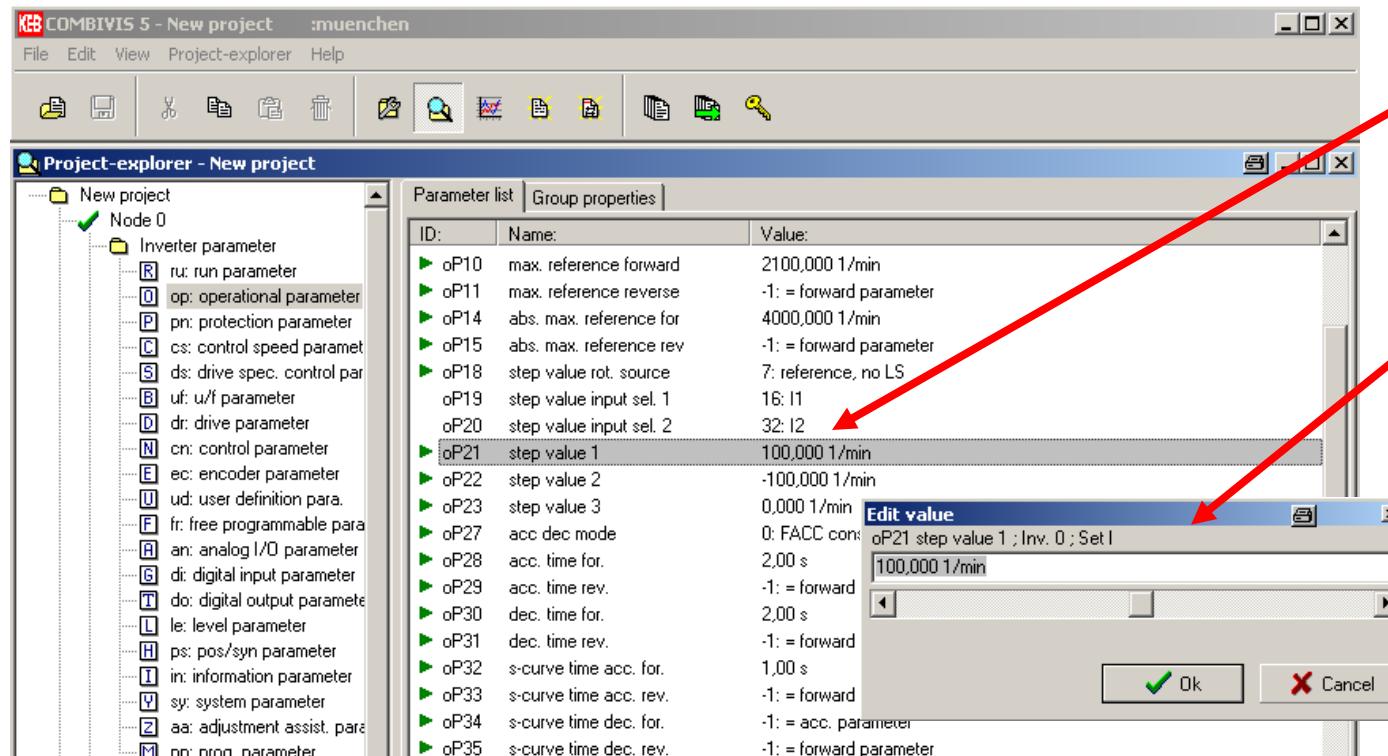
IP"

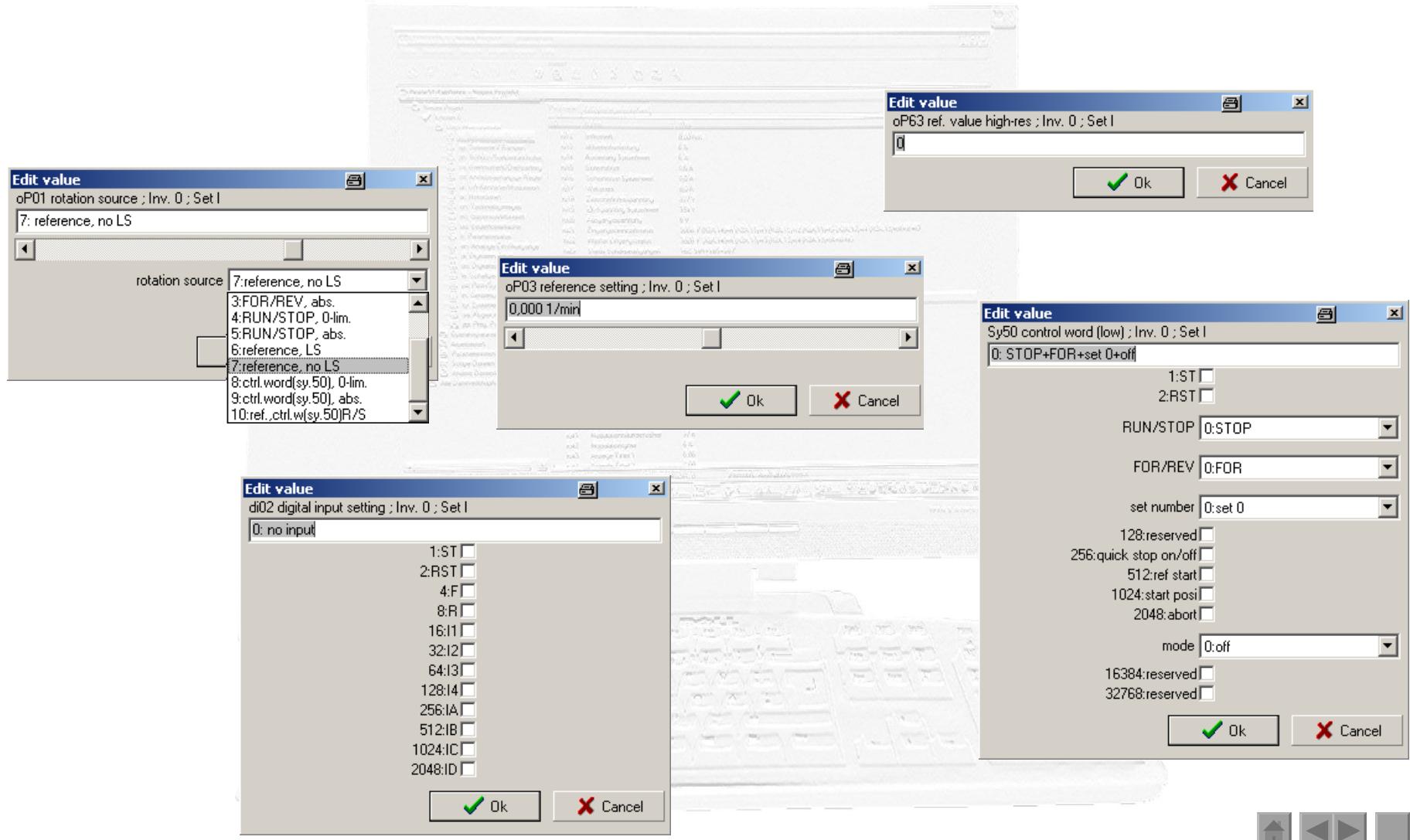












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KEB COMBIVIS 5 - New project :muenchen

File Edit View Project-explorer Help

Project-explorer - New project

New project

- ✓ Node 0
 - Inverter parameter
 - R ru: run parameter
 - O op: operational parameter
 - P pn: protection parameter
 - C cs: control speed parameter
 - S ds: drive spec. control para
 - B uf: u/f parameter
 - D dr: drive parameter
 - N cn: control parameter
 - E ec: encoder parameter
 - U ud: user definition para.
 - F ft: free programmable para.
 - A an: analog I/O parameter
 - G di: digital input parameter
 - I do: digital output parameter
 - L le: level parameter
 - H ps: pos/syn parameter
 - T in: information parameter
 - V sy: system parameter
 - Z aa: adjustment assist. para.
 - M pp: prog. parameter
 - Operator parameter
 - Work lists
 - Download lists
 - Scope files
 - Additional files
- All linked files

Parameter list | Group properties

ID:	Name:	Value:
► oP00	reference source	5: set speed value (sy.52)
► oP01	rotation source	7: reference, no LS
► oP02	rotation setting	0: low speed
► oP03	reference setting	0,000 1/min
► oP05	reference setting %	0,0 %
► oP06	min. reference forward	0,000 1/min
► oP07	min. reference reverse	-1: = forward parameter -1: = reverse parameter
	Set 0	
	Set 1	-1: = forward parameter
	Set 2	-1: = forward parameter
	Set 3	-1: = forward parameter
	Set 4	-1: = forward parameter
	Set 5	-1: = forward parameter
	Set 6	-1: = forward parameter
	Set 7	-1: = forward parameter
► oP10	max. reference forward	2100,000 1/min
► oP11	max. reference reverse	-1: = forward parameter
► oP14	abs. max. reference for	4000,000 1/min
► oP15	abs. max. reference rev	-1: = forward parameter
► oP18	step value rot. source	7: reference, no LS
oP19	step value input sel. 1	16: I1
oP20	step value input sel. 2	32: I2
► oP21	step value 1	100,000 1/min
► oP22	step value 2	-100,000 1/min
► oP23	step value 3	0,000 1/min
► oP27	acc dec mode	0: FACC const. ramp+FDEC const. ramp+RACC const. ramp+RDEC const. ramp
► oP28	acc. time for	2,00 s

Edit value

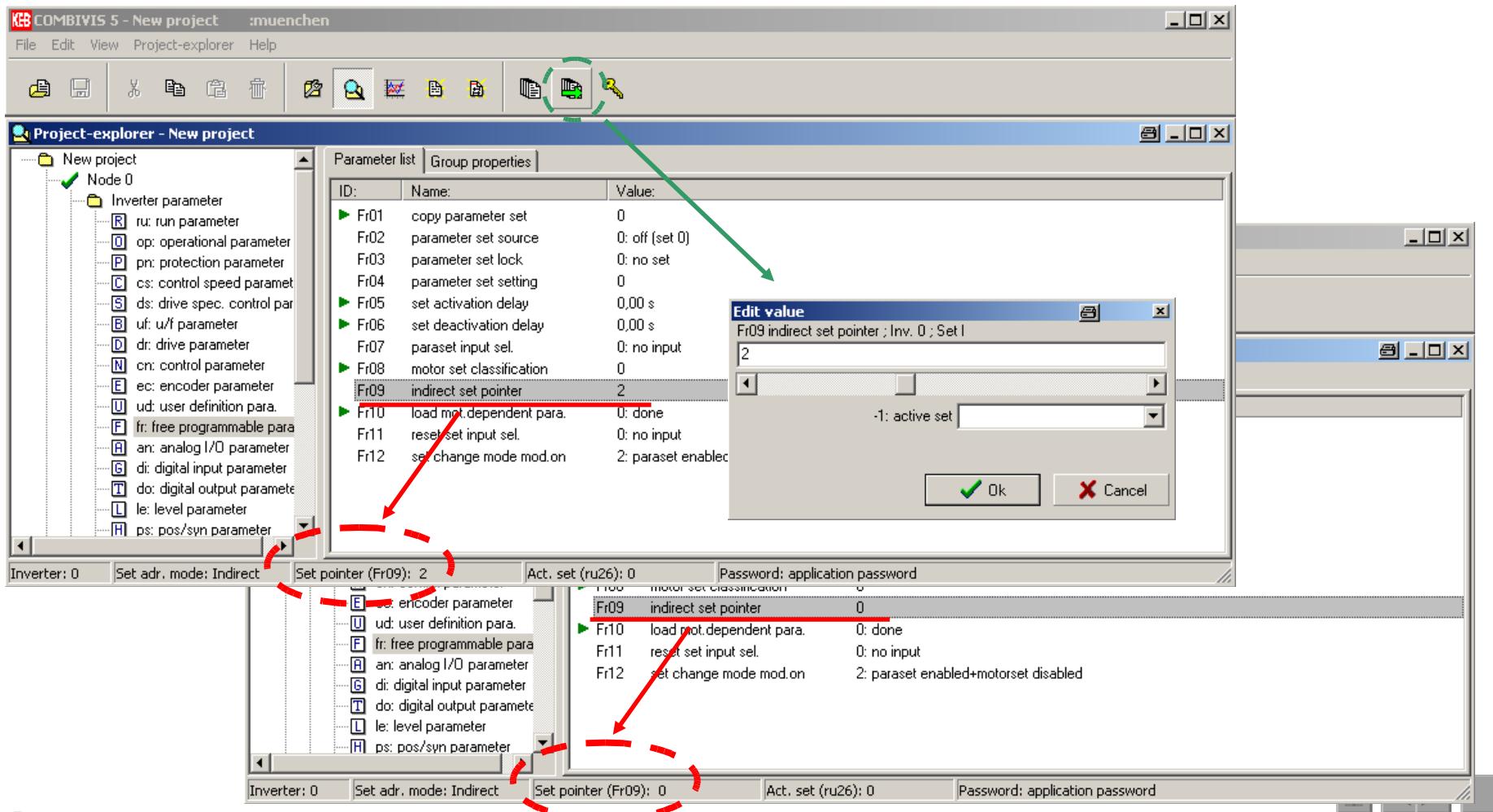
oP07 min. reference reverse ; Inv. 0 ; Set 1

100,000 1/min

= forward parameter

Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password





Fr.09

• Fr.09

• Fr.09

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The image shows a large, bold, dark brown watermark-style text "work list" in the foreground. In the background, there is a faint, semi-transparent grid of small, light gray text and numbers, resembling a table or a list of items from a document.



KEBCOMBIVIS

KEBCOMBIVIS 5 - New project :muenchen

File Edit View Windows Help

New project
New Parameterlist
New Worklist
Parameter saving

Open Strg+O
Save Strg+S
Save as
Open

Save project
Save project as
Copy project

Print Strg+P
Quit

ud: user definition para.
fr: free programmable para.
an: analog I/O parameter
di: digital input parameter
do: digital output parameter
le: level parameter
ps: pos/syn parameter
in: information parameter
sy: system parameter
aa: adjustment assist. para.
pp: prog. parameter

Operator parameter
Work lists
Download lists
Scope files
Additional files
All linked files

Parameter list Group properties

ID:	Name:	Value:
► oP00	reference source	0: analog REF
► oP01	rotation source	7: reference, no LS
► oP02	rotation setting	0: low speed
► oP03	reference setting	0,000 1/min
► oP05	reference setting %	0,0 %
► oP06	min. reference forward	0,000 1/min
► oP07	min. reference reverse	-1
► oP10	max. reference forward	2
► oP11	max. reference reverse	-1
► oP14	abs. max. reference for	4
► oP15	abs. max. reference rev	-1
► oP18	step value rot. source	4
► oP19	step value input sel. 1	1
► oP20	step value input sel. 2	3
► oP21	step value 1	11
► oP22	step value 2	-1
► oP23	step value 3	0
► oP27	acc dec mode	0
► oP28	acc. time for.	5
► oP29	acc. time rev.	-1
► oP30	dec. time for.	5
► oP31	dec. time rev.	-1
► oP32	s-curve time acc. for.	0
► oP33	s-curve time acc. rev.	-1
► oP34	s-curve time dec. for.	0
► oP35	s-curve time dec. rev.	-1
► oP36		-1 = forward parameter

Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password

D:\Präsentationen\Schulung\Worklist Start-Up.wr5

Worklist for startup of a stacker crane

Inv.	Addr.	Set	Id.	Name	Value	Remarks
0	1000h	I	Ec00	encoder 1 interface	13: Incremental In E....	Input of motor encoder parameters
0	1001h	I	Ec01	encoder 1 (inc/r)	No Answer	
0	1003h	I	Ec03	time 1 for speed calc.	3: 4 ms	
0	1006h	I	Ec06	enc.1 rotation	0: not invers+off	
0	1007h	I	Ec07	enc.1 trigger/mult.	2: 4 times	
0	100Ah	I	Ec10	encoder 2 interface	2: Incremental Out	Input of position
0	100Bh	I	Ec11	encoder 2 (inc/r)	2500: 2500 inc	
0	100Dh	I	Ec13	time 2 for speed calc.	3: 4 ms	
0	100Eh	I	Ec14	gear 2 numerator	1000	
0	100Fh	I	Ec15	gear 2 determinator	1000	
0	1010h	I	Ec16	enc.2 rotation	0: not invers+off	
0	1011h	I	Ec17	enc.2 trigger/mult.	2: 4 times	
0	1015h	I	Ec21	SSI multturn res.	12	
0	1016h	I	Ec22	SSI clock freq. sel.	0: 156,25 kHz	
0	1017h	I	Ec23	SSI data code	1: gray	
0	1018h	I	Ec24	SSI power failure bit	0: off	

Edit value	F3
Edit set	F4
Edit remark	F5
Edit Parameter	F6
Edit node addr.	F2
Insert blank line	F7
Save worklist	Strg+S
Save worklist as	
Add worklist to project	
Cut	Strg+X
Copy	Strg+C
Paste	Strg+V
Delete	Entf
Mark all	Strg+A
Reset column width	

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D:\Präsentationen\Schulung\Worklist Start-Up.wr5

Worklist for startup of a stacker crane

Inv. Addr. Set Id. Name Value Remarks

Inv.	Addr.	Set	Id.	Name	Value	Remarks
0	0600h		dr00	DASM rated current	3.64	Input of motor data (name plate)
0	0601h	I	dr01	DASM rated speed	1400 1/min	
0	0602h	I	dr02	DASM rated voltage	230 V	
0	0603h	I	dr03	DASM rated power	0,75 kW	
0	0604h	I	dr04	DASM rated cos(phi)	0,73	
0	0605h	I	dr05	DASM rated frequency	50,0 Hz	
0	0606h	I	dr06	DASM stator resistance	5,400 Ohm	
0	0607h	I	dr07	DASM sigma-inductance	13,50 mH	
0	0608h	I	dr08	DASM rotor resistance	6,933 Ohm	
0	0609h	I	dr10	DASM load-inductance	314,0 mH	
0	060Eh	I	dr14	DASM rated torque	5,11 Nm	
0	060Fh	I	dr15	max torque FU	11,49 Nm	
0	0610h		dr16	DASM max torque corn. sp	7,66 Nm	
0	0611h	I	dr17	DASM speed for max torq.	900 1/min	
0	0612h	I	dr18	DASM field weak. speed	1290 1/min	
0	0613h	I	dr19	flux adaption faktor	100 %	
0	0614h	I	dr20	field weak. curve	1,20	
0	0615h	I	dr21	no load voltage	75,0 %	
0	0904h	I	Fr10	load mot. dependent para.	0: done	automatic calculation of current control parameters -> Fr.10 = 1
0	0500h	I	uF00	rated frequency	50,0000 Hz	Basic inputs for start-up in U/f-mode
0	0501h	I	uF01	boost	No Answer	

Edit value
dr16 DASM max torque corn. sp ; Inv. 0 ; Set I
7,66 Nm
Ok Cancel

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KEBCOMBIVIS 5 - New project :muenchen

File Edit View Windows Help

New project
New Parameterlist
New Worklist
Parameter saving

Open Strg+O
Save Strg+S
Save as
Open
Save project
Save project as
Copy project

Print Strg+P
Quit

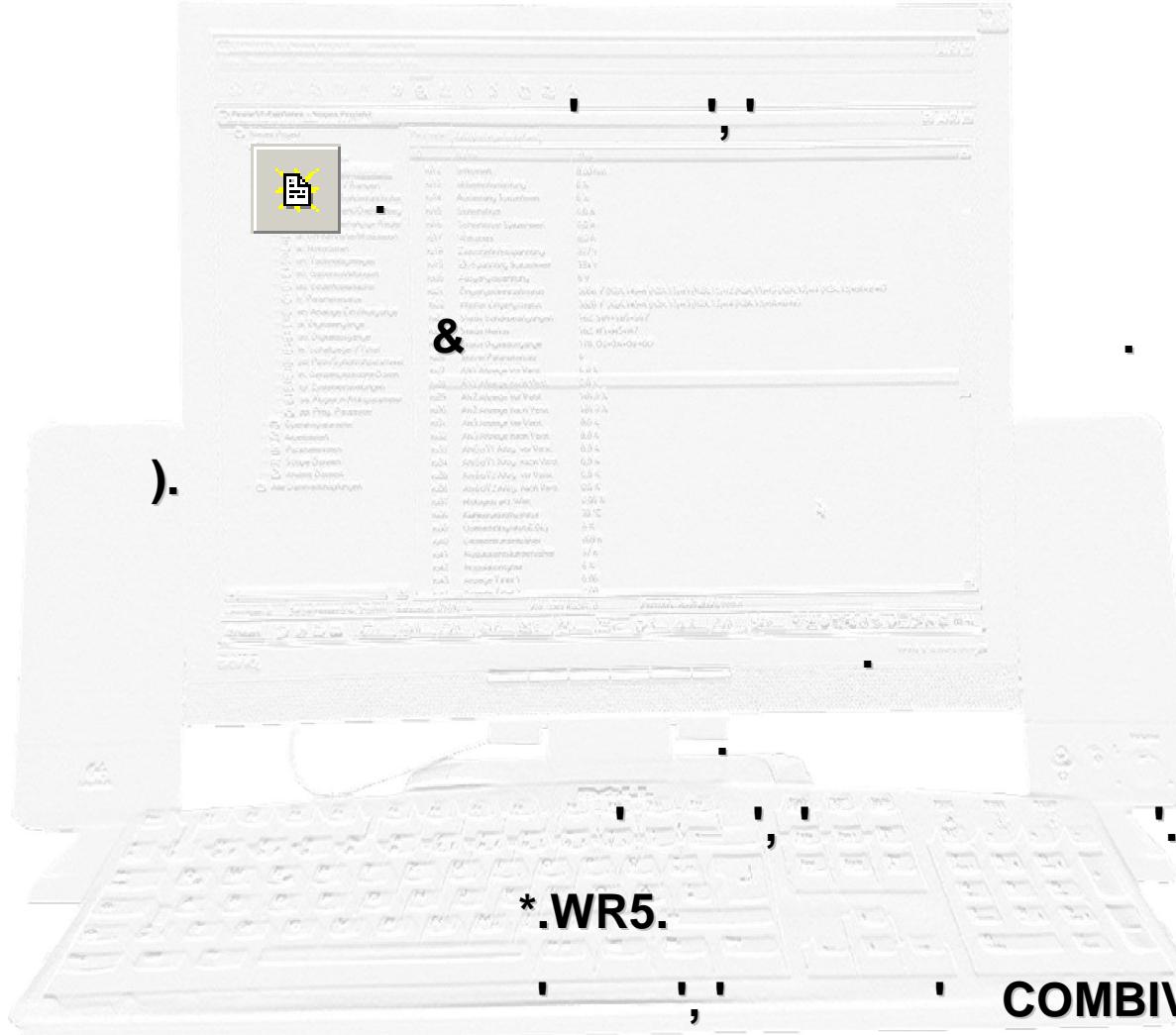
	Address	Name	Value	Remarks
0	100Eh	Ec14	encoder 1 interface	13: Incremental
0	100Fh	Ec15	encoder 1 (inc/r)	2500: 2500
0	1010h	Ec16	line 1 for speed calc.	3: 4 ms
0	1011h	Ec17	enc.1 rotation	0: not in
0	1015h	Ec21	enc.1 trigger/mult.	2: 4 times
0	1016h	Ec22	encoder 2 interface	2: Incremental
0	1017h	Ec23	encoder 2 (inc/r)	2500: 2500
0	1018h	Ec24	line 2 for speed calc.	3: 4 ms
0	102Ah	Ec42	SSI multturn res.	1000
0			SSI clock freq. sel.	1000
0			SSI data code	0: not in
0			SSI power failure bit	12: 4 times
0			enc.alarm mode	1: gray
0				0: off
0				0: off-on

Speichern unter

Speichern Worklist Start-Up.wr5

Dateiname: Speichern

Dateityp: Abbrechen



D:\Präsentationen\Schulung\Worklist Start-Up.wr5

Worklist for startup of a stacker crane

Inv.	Addr.	Id.	Name	Value	Remarks	
0	0F00h	cS00	speed control config.	0: off	Speed-control activation cS.00 = 4	<input type="button" value="Edit value"/> F3
0	0F01h	cS01	act. source	0: channel 1+off		<input type="button" value="Edit set"/> F4
0	0F06h	cS06	KP speed	300	Kp speed-control	<input type="button" value="Edit remark"/> F5
0	0F09h	cS09	KI speed	100	Ki speed-control	<input type="button" value="Edit Parameter"/> F6
0	0F0Ah	cS10	KI offset	0	Ki offset in lower speeds	<input type="button" value="Edit node addr."/> F2
0	0F0Bh	cS11	max speed for max Ki	10 1/min	for better taking over of the load	<input type="button" value="Insert blank line"/> F7
0	0F0Ch	cS12	min speed for cs.09	500 1/min		
0	1306h	PS06	KP pos/syn	500	Kp positon control	<input type="button" value="Save worklist"/> Strg+S
0	1307h	PS07	KP speed limit reduction	100,0 %	Reductiuon of the Kp-position at higher spee	<input type="button" value="Save worklist as"/> Strg+Shift+S
0	1308h	PS08	speed limit for ps.07	4000,000 1/min	to avoid oscillations	<input type="button" value="Add worklist to project"/> Shift+F1
0	0315h	oP21	step value 1	100,000 1/min	Fixed speed for manual mode, forward, slow	<input type="button" value="Cut"/> Strg+X
0	0316h	oP22	step value 2	-100,000 1/min		<input type="button" value="Copy"/> Strg+C
0	0317h	oP23	step value 3	0,000 1/min		<input type="button" value="Paste"/> Strg+V
0	031Ch	oP28	acc. time for.	2,00 s		<input type="button" value="Delete"/> Entf
0	0320h	oP32	s-curve time acc. for.	1,00 s		<input type="button" value="Mark all"/> Strg+A
0	0315h	oP21	step value 1	100		<input type="button" value="Reset column width"/> Shift+F2
0	0316h	oP22	step value 2	-100		
0	0317h	oP23	step value 3	0,00		
0	031Ch	oP28	acc. time for.	5,00		
0	0320h	oP32	s-curve time acc. for.	0: off		
0	0315h	oP21	step value 1	100		

Enhanced set selection All sets
 0: 1: 2: 3: 4: 5: 6: 7:
 Actual set
 Indirect by set pointer

KEBCOMBIVIS



D:\Präsentationen\Schulung\Worklist Start-Up.wr5

Worklist for startup of a stacker crane

Inv.	Addr.	Set	Id.	Name	Value	Remarks
1	0316h	0	oP22	step value 2	-100,000 1/min	
1	0317h	0	oP23	step value 3	0,000 1/min	
1	031Ch	0	oP28	acc. time for.	2,00 s	
1	0320h	0	oP32	s-curve time acc. for.	1,00 s	
1	0315h	1	oP21	step value 1	100,000 1/min	
1	0316h	1	oP22	step value 2	-100,000 1/min	
1	0317h	1	oP23	step value 3	0,000 1/min	
1	031Ch	1	oP28	acc. time for.	5,00 s	
1	0320h	1	oP32	s-curve time acc. for.	0: off	
1	0315h	2	oP21	step value 1	100,000 1/min	Fixed speed for manual mode, reverse, fast
1	0316h	2	oP22	step value 2	-100,000 1/min	
1	0317h	2	oP23	step value 3	0,000 1/min	
1	031Ch	2	oP28	acc. time for.	5,00 s	
1	0315h	3	oP21	step value 1	100,000 1/min	
1	0316h	3	oP22	step value 2	-100,000 1/min	
1	0317h	3	oP23	step value 3	0,000 1/min	
1	031Ch	3	oP28	acc. time for.	5,00 s	

Edit node addr. unknown Inverter , Worklist Start-Up.wr5

1 Node 1

Ok Cancel

Edit value F3
 Edit set F4
 Edit remark F5
 Edit Parameter F6
Edit node addr. F2
 Insert blank line F7
 Save worklist Strg+S
 Save worklist as
 Add worklist to project
 Cut Strg+X
 Copy Strg+C
 Paste Strg+V
 Delete Entf
 Mark all Strg+A
 Reset column width





KEB COMBIVIS 5 - New project :muenchen

File Edit View Project-explorer Help

New project
New Parameterlist
New Worklist
Parameter saving

Open Strg+O
Save Strg+S
Save as
Open
Save project
Save project as
Copy project
Print Strg+P
Quit

ud: user definition para.
fr: free programmable para.
an: analog I/O parameter
di: digital input parameter
do: digital output parameter
le: level parameter
ps: pos/syn parameter
in: information parameter
sy: system parameter
aa: adjustment assist. para.
pp: prog. parameter

Operator parameter
Work lists
Download lists
Scope files
Additional files
All linked files

New Parameterlist

ID:	Name:	Value:
► oP00	reference source	No Answer
► oP01	rotation source	7: reference, no LS
► oP02	rotation setting	0: low speed
► oP03	reference setting	0,00C
► oP05	reference setting %	0,0%
► oP06	min. reference forward	0,00C
► oP07	min. reference reverse	-1: =I
► oP10	max. reference forward	2100,
► oP11	max. reference reverse	-1: =I
► oP14	abs. max. reference for	4000,
► oP15	abs. max. reference rev	-1: =I
► oP18	step value rot. source	7: ref
► oP19	step value input sel. 1	16: I1
► oP20	step value input sel. 2	32: I2
► oP21	step value 1	100,C
► oP22	step value 2	-100,J
► oP23	step value 3	0,00C
► oP27	acc dec mode	0: FA
► oP28	acc. time for.	2,00 :
► oP29	acc. time rev.	-1: =I
► oP30	dec. time for.	2,00 :
► oP31	dec. time rev.	-1: =I
► oP32	s-curve time acc. for.	1,00 :
► oP33	s-curve time acc. rev.	-1: = forward parameter
► oP34	s-curve time dec. for.	-1: = acc. parameter
► oP35	s-curve time dec. rev.	-1: = forward parameter

New Parameterlist1 - Node 0

0	R / W	Set	Addr	ID	Parameter	Value	Remarks
2100,							
-1: =I							
4000,							
-1: =I							
7: ref							
16: I1							
32: I2							
100,C							
-100,J							
0,00C							
0: FA							
2,00 :							
-1: =I							
2,00 :							
-1: =I							
1,00 :							
-1: = forward parameter							
-1: = acc. parameter							
-1: = forward parameter							

Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password

D:\Präsentationen\Schulung\crane1 x-axis.dws - Node 0

Parameterlist for x-axis crane RBG1

3302	R / W	Set	Addr	ID	Parameter	Value	Remarks
242	RW	I	0600h	dr00	DASM rated current	1,8 A	motor data x-axis
243	RW	I	0601h	dr01	DASM rated speed	1370 1/min	
244	RW	I	0602h	dr02	DASM rated voltage	230 V	
245	RW	I	0603h	dr03	DASM rated power	0,37 kW	
246	RW	I	0604h	dr04	DASM rated cos(phi)	0,76	
247	RW	I	0605h	dr05	DASM rated frequency	50,0 Hz	
248	RW	I	0606h	dr06	DASM stator resistance	5,400 Ohm	
249	RW	I	0607h	dr07	DASM sigma-inductance	13,50 mH	
250	RW	I	0608h	dr08	DASM rotor resistance	6,933 Ohm	
251	RW	I	0609h	dr09	breakdown factor	2,5	
252	RW	I	060Ah	dr10	DASM head-inductance	980,4 mH	
253							
254	RW	I	060Bh	dr11	motorprotection mode	1: self cooling	
255	RW	I	060Ch	dr12	motorprot. rated current	3,6 A	
256	RO	I	060Eh	dr14	DASM rated torque	2,57 Nm	
257	RO	I	060Fh	dr15	max torque FU	11,69 Nm	
258	RW	I	0610h	dr16	DASM max torque corn. sp	3,85 Nm	
259	RW	I	0611h	dr17	DASM speed for max torq.	900 1/min	
260	RW	I	0612h	dr18	DASM field weak. speed	1290 1/min	
261	RW	I	0613h	dr19	flux adaption faktor	100 %	
262	RW	I	0614h	dr20	field weak. curve	1,20	
263	RW	I	0615h	dr21	no load voltage	75,0 %	
264	RW	I	0625h	dr37	max. current	0,0 A	

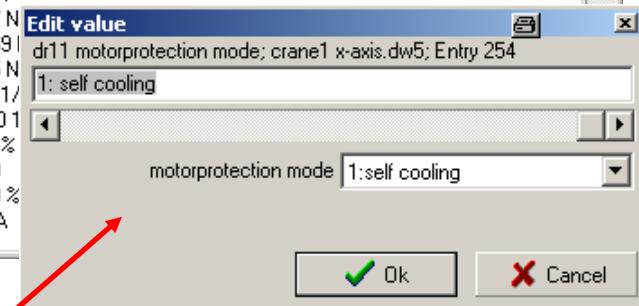
- Edit value F3
- Edit set F4
- Edit remark F5
- Insert new parameter F6
- Insert blank line F7
- Insert user input
- Save Strg+S
- Save as
- Add to project
- Cut Strg+X
- Copy Strg+C
- Paste Strg+V
- Delete Entf
- Mark all Strg+A

()

D:\Präsentationen\Schulung\crane1 x-axis.dwg - Node 0

Parameterlist for x-axis crane RBG1

	R / W	Set	Addr	ID	Parameter	Value	Remarks
3302							
241	RW	I	0600h	dr00	DASM rated current	1.8 A	
242	RW	I	0601h	dr01	DASM rated speed	1370 1/min	
243	RW	I	0602h	dr02	DASM rated voltage	230 V	
244	RW	I	0603h	dr03	DASM rated power	0.37 kW	
245	RW	I	0604h	dr04	DASM rated cos(phi)	0.75	
246	RW	I	0605h	dr05	DASM rated frequency	50.0 Hz	
247	RW	I	0606h	dr06	DASM stator resistance	5,400 Ohm	
248	RW	I	0607h	dr07	DASM sigma-inductance	13.50 mH	
249	RW	I	0608h	dr08	DASM rotor resistance	6,933 Ohm	
250	RW	I	0609h	dr09	breakdown factor	2.5	
251	RW	I	060Ah	dr10	DASM head-inductance	980.4 mH	
253							
254	RW	I	060Bh	dr11	motorprotection mode	1: self cooling	
255	RW	I	060Ch	dr12	motorprot. rated current	3.6 A	
256	RO	I	060Eh	dr14	DASM rated torque	2,57 N	
257	RO	I	060Fh	dr15	max torque FU	11,691	Edit value
258	RW	I	0610h	dr16	DASM max torque corn. sp.	3.85 N	dr11 motorprotection mode; crane1 x-axis.dwg; Entry 254
259	RW	I	0611h	dr17	DASM speed for max torq.	900 1/	1: self cooling
260	RW	I	0612h	dr18	DASM field weak. speed	1290 1	
261	RW	I	0613h	dr19	flux adaption faktor	100 %	
262	RW	I	0614h	dr20	field weak. curve	1,20	
263	RW	I	0615h	dr21	no load voltage	75,0 %	
264	RW	I	0625h	dr37	max. current	0,0 A	



,

KEBCOMBIVIS 5 - New project :muenchen

File Edit View crane1 x-axis.dw5 Windows Help

New project
New Parameterlist
New Worklist
Parameter saving

Open Strg+O
Save Strg+S
Save as
Open

Save project
Save project as
Copy project

Print Strg+P

Quit

251 RW | 0609h dr09 breakdown factor 2,5
252 RW | 060Ah dr10 DASM head-inductance 980,4 mH
253
254 RW | 060Bh dr11 motorprotection mode 1: self cooling
255 RW | 060Ch dr12 motorprot. rated current 3,6 A
256 RO | 060Eh dr14 DASM rated torque 2,57 Nm
257 RO | 060Fh dr15 max torque FU 11,69 Nm
258 RW | 0610h dr16 DASM max torque corn. sp 3,85 Nm
259 RW | 0611h dr17 DASM speed for max torq. 900 1/min
260 RW | 0612h dr18 DASM field weak. speed 1290 1/min
261 RW | 0613h dr19 flux adaption faktor 100 %
262 RW | 0614h dr20 field weak. curve 1,20
263 RW | 0615h dr21 no load voltage 75,0 %
264 RW | 0625h dr37 max. current 0,0 A

ng\crane1 x-axis.dw5 - Node 0

ID	Parameter	Value	Remarks
0h dr00	DASM rated current	1,8 A	motor data x-axis
1h dr01	DASM rated speed	1370 1/min	
2h dr02	DASM rated voltage	230 V	
3h dr03	DASM rated power	0,37 kW	
4h dr04	DASM rated cos(phi)	0,76	
5h dr05	DASM rated frequency	50,0 Hz	
6h dr06	DASM stator resistance	5,400 Ohm	
7h dr07	DASM sigma-inductance	13,50 mH	
8h dr08	DASM rotor resistance	6,933 Ohm	

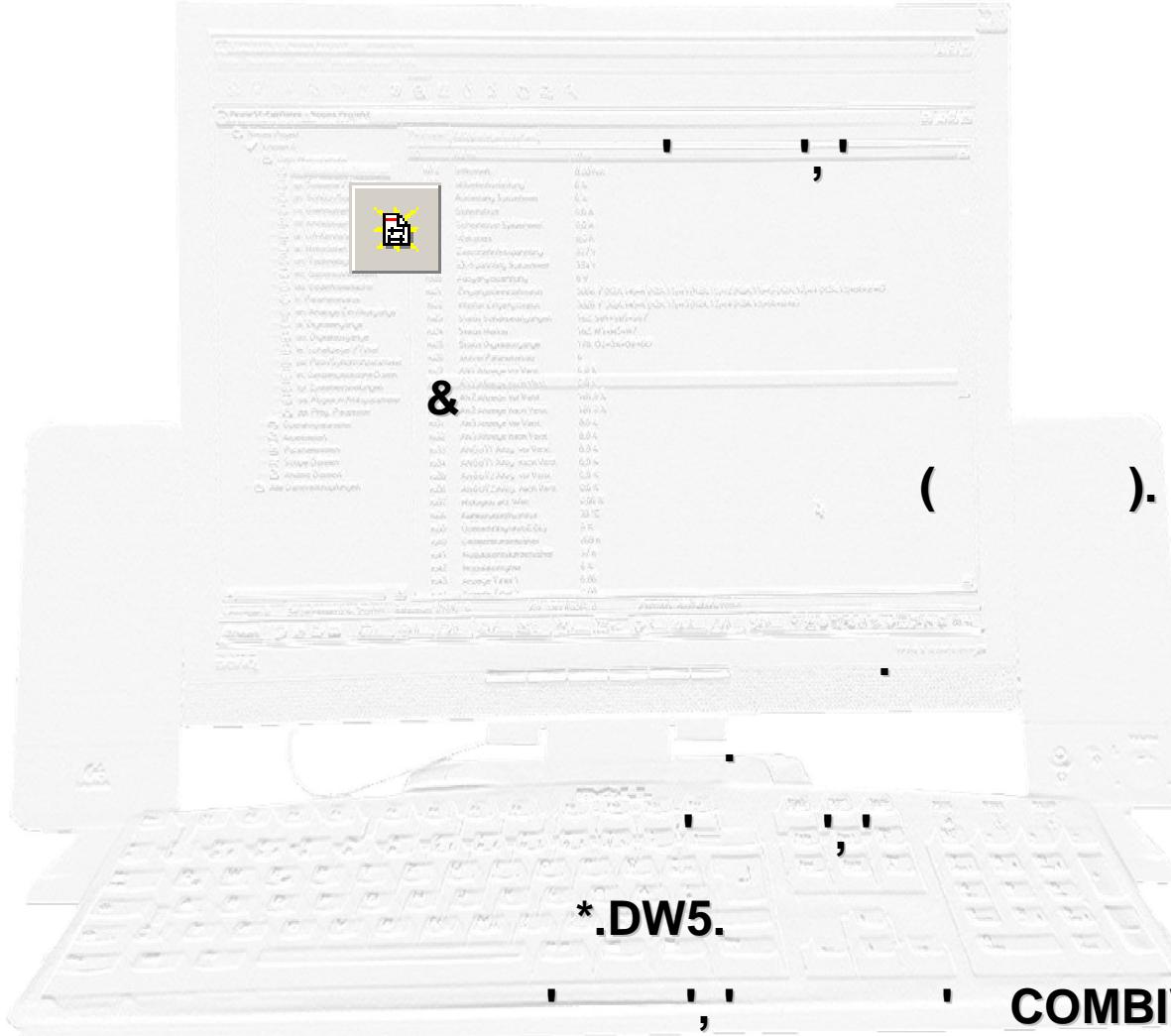
Speichern unter

Speichern crane1 x-axis.dw5

Dateiname: crane1 x-axis.dw5 Speichern

Dateityp: Parameter lists (*.dw5) Abbrechen

KEBCOMBIVIS

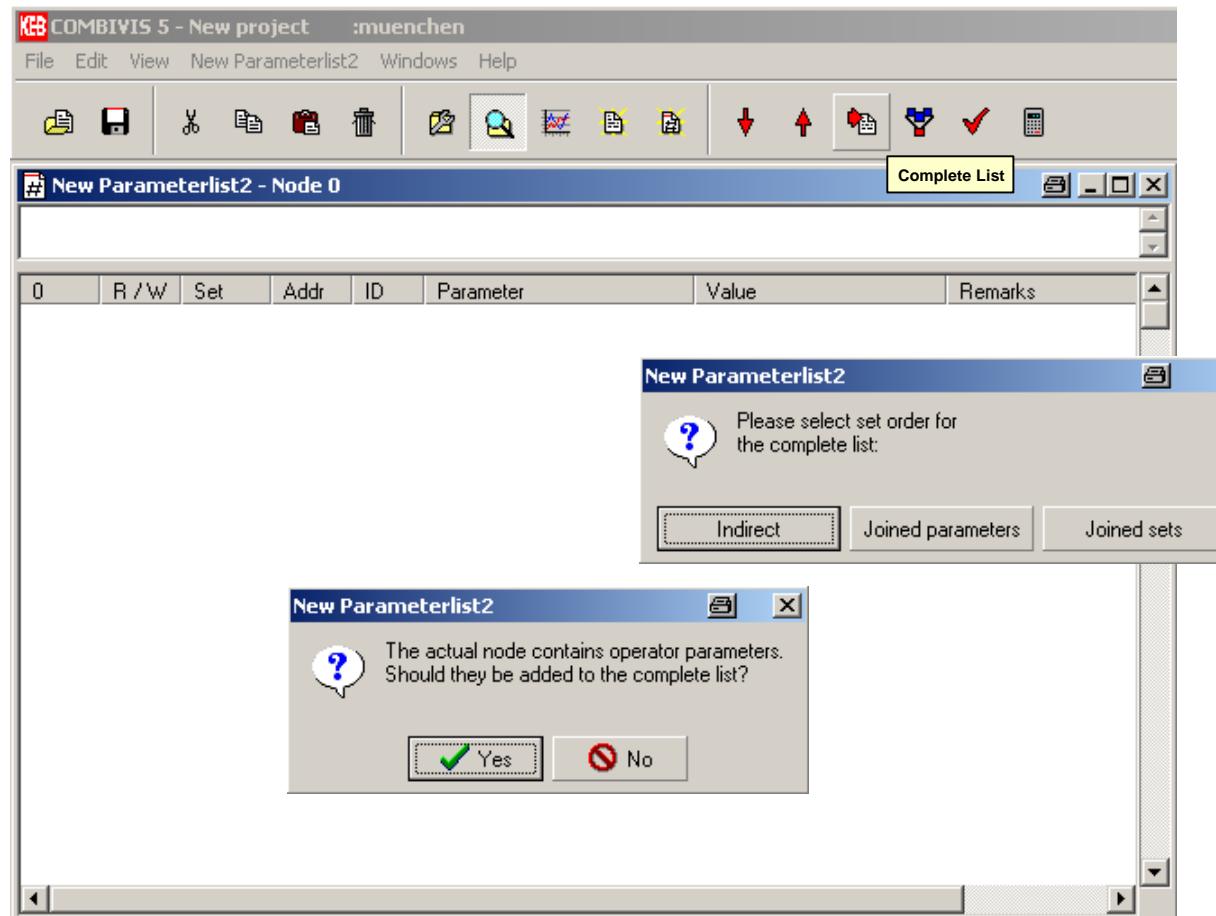


Drag&Drop

***DW5.**

COMBIVIS.





KEB COMBIVIS 5 - New project :muenchen

File Edit View New Parameterlist1 Windows Help

New Parameterlist1 - Node 0

3472	R / W	Set	Addr	ID	Parameter	Value
0	WA		0801h	Ud01	password	0
1	WA		0909h	Fr09	indirect set pointer	0
2	WA		0002h	Sy02	inverter identifier	2212:F5A-M/A/4.00 400
3	WA		0909h	Fr09	indirect set pointer	0
4	WA		0200h	ru00	inverter state	0: no operation
5	RO		0201h	ru01	set value display	0.000 1/min
6	RO		0202h	ru02	ramp output display	0.000 1/min
7	RO		0203h	ru03	actual frequency display	0.0000 Hz
8	RO		0206h	ru06	calculated act. value	0.000 1/min
9	RO		0207h	ru07	actual value display	0.000 1/min
10	RO		0209h	ru09	encoder 1 speed	0.000 1/min
11	RO		0204h	ru10	encoder 2 speed	0.000 1/min
12	RO		020Bh	ru11	set torque display	0.00 Nm
13	RO		020Ch	ru12	actual torque display	0.00 Nm
14	RO		020Dh	ru13	actual utilization	0 %
15	RO		020Eh	ru14	peak utilization	0 %
16	RW		020Fh	ru15	apparent current	0.0 A
17	RO		0210h	ru16	peak apparent current	0.0 A
18	RW		0211h	ru17	active current	0.0 A
19	RO		0212h	ru18	actual DC voltage	0 V
20	RO		0213h	ru19	peak DC voltage	0 V

Parameter list 1-4 size: proc. data 1-4 size 0000h

Parameter list 5-8 size: proc. data 5-8 size 0000h

1488 RW 004Ah Sy74 proc. data 1-4 size 0000h
1489 RW 004Bh Sy75 proc. data 5-8 size 0000h
1490
1491
1492 WA 0909h Fr09 indirect set pointer 1
1493 RW 0300h oP00 reference source 0: analog REF
1494 RW 0301h oP01 rotation source 7: reference, no LS
1495 RW 0302h oP02 rotation setting 0: low speed
1496 RW 0303h oP03 reference setting 0,000 1/min
1497 RW 0305h oP05 reference setting % 0,0 %
1498 RW 0306h oP06 min. reference forward 0,000 1/min
1499 RW 0307h oP07 min. reference reverse -1: = forward parameter
1758 RO 0E18h In24 last error 0: no operation
1759 RO 0E19h In25 error diagnosis no error+0000h
1760
1761
1762 WA 0909h Fr09 indirect set pointer 2
1763 RW 0300h oP00 reference source 0: analog REF
1764 RW 0301h oP01 rotation source 7: reference, no LS
1765 RW 0302h oP02 rotation setting 0: low speed
1766 RW 0303h oP03 reference setting 0,000 1/min
1767 RW 0305h oP05 reference setting % 0,0 %
1768 RW 0306h oP06 min. reference forward 0,000 1/min
1769 RW 0307h oP07 min. reference reverse -1: = forward parameter
3108 RO 0E18h In24 last error 0: no operation
3109 RO 0E19h In25 error diagnosis no error+0000h
3110
3111
3112 WA 0909h Fr09 indirect set pointer 7
3113 RW 0300h oP00 reference source 0: analog REF
3114 RW 0301h oP01 rotation source 7: reference, no LS
3115 RW 0302h oP02 rotation setting 0: low speed
3116 RW 0303h oP03 reference setting 0,000 1/min
3117 RW 0305h oP05 reference setting % 0,0 %
3118 RW 0306h oP06 min. reference forward 0,000 1/min
3119 RW 0307h oP07 min. reference reverse -1: = forward parameter

(Fr.09)

- /
-
-
- : **Fr.09= 0**
- 0,
- .
- **Fr.09= 1**
- 1.
-
- **Fr.09= 7**
- 7.

KEBCOMBIVIS



KEBCOMBIVIS 5 - New project :muenchen

File Edit View New Parameterlist1 Windows Help

New Parameterlist1 - Node 0

3357	R / W	Set	Addr	ID	Parameter	Value
0	WA	I	0801h	Ud01	password	0
1	WA		0002h	Sy02	inverter identifier	2212:F5A-MV4.00
2	RO		0200h	ru00	inverter state	0: no operation
3	RO		0201h	ru01	set value display	0,000 1/min
4	RO		0202h	ru02	ramp output display	0,000 1/min
5	RO		0203h	ru03	actual frequency display	0,0000 Hz
6	RO		0206h	ru06	calculated act. value	0,000 1/min
7	RO		0207h	ru07	actual value display	0,000 1/min
8	RO		0209h	ru09	encoder 1 speed	0,000 1/min
9	RO		020Ah	ru10	encoder 2 speed	0,000 1/min
10	RO		020Bh	ru11	set torque display	0,00 Nm
11	RO		020Ch	ru12	actual torque display	0,00 Nm
12	RO		020Dh	ru13	actual utilization	0 %
13	RW		020Eh	ru14	peak utilization	0 %
14	RO		020Fh	ru15	apparent current	0,0 A
15	RW		0210h	ru16	peak apparent current	0,0 A
16	RO		0211h	ru17	active current	0,0 A
17	RO		0212h	ru18	actual DC voltage	0 V
18	RW		0213h	ru19	peak DC voltage	0 V
19	RO		0214h	ru20	output voltage	0 V
20	RO		0215h	ru21	input terminal state	0: no input
21	RO		0216h	ru22	internal input state	0: no input

New Parameterlist1 - Node 0

3357	R / W	Set	Addr	ID	Parameter	Value	Remarks
69	RW		0255h	ru85	peak.encoder.1.speed	0,000 1/min	
70	RW		0256h	ru86	peak.encoder.2.speed	0,000 1/min	
71	RO		0257h	ru87	magnetising current	0,0 A	
72	RO		0259h	ru89	act. src. speed	0,000 1/min	
73	RO		025Ah	ru90	max.torque in percent	0,00 %	
74	RW		0300h	oP00	reference source	0: analog REF	
75	RW		0300h	oP00	reference source	0: analog REF	
76	RW		0300h	oP00	reference source	0: analog REF	
77	RW		0300h	oP00	reference source	0: analog REF	
78	RW		0300h	oP00	reference source	0: analog REF	
79	RW		0300h	oP00	reference source	0: analog REF	
80	RW		0300h	oP00	reference source	0: analog REF	
81	RW		0300h	oP00	reference source	0: analog REF	
82	RW		0300h	oP00	reference source	0: analog REF	
83	RW		0301h	oP01	rotation source	7: reference, no LS	
84	RW		0301h	oP01	rotation source	7: reference, no LS	
85	RW		0301h	oP01	rotation source	7: reference, no LS	
86	RW		0301h	oP01	rotation source	7: reference, no LS	
87	RW		0301h	oP01	rotation source	7: reference, no LS	
88	RW		0301h	oP01	rotation source	7: reference, no LS	
89	RW		0301h	oP01	rotation source	7: reference, no LS	
90	RW		0301h	oP01	rotation source	7: reference, no LS	

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KEBCOMBIVIS 5 - New project :muenchen

File Edit View New Parameterlist1 Windows Help

New Parameterlist1 - Node 0

3497	R / W	Set	Addr	ID	Parameter	Value	1485 RW	004Ah Sy74 proc. data 1-4 size	0000h
0	WA	I	0801h	Ud01	password	0	1486 RW	004Bh Sy75 proc. data 5-8 size	0000h
1	WA	I	0002h	Sy02	inverter identifier	2212: F5A-M/A/4.00 400...	1487		
2	RO		0200h	ru00	inverter state	0: no operation	1488		
3	RO		0201h	ru01	set value display	0,000 1/min	1489 RW	0300h oP00 reference source	0: analog REF
4	RO		0202h	ru02	ramp output display	0,000 1/min	1490 RW	0301h oP01 rotation source	7: reference, no LS
5	RO		0203h	ru03	actual frequency display	0,0000 Hz	1491 RW	0302h oP02 rotation setting	0: low speed
6	RO		0206h	ru06	calculated act. value	0,000 1/min	1492 RW	0303h oP03 reference setting	0,000 1/min
7	RO		0207h	ru07	actual value display	0,000 1/min	1493 RW	0305h oP05 reference setting %	0,0 %
8	RO		0209h	ru09	encoder 1 speed	0,000 1/min	1494 RW	0306h oP06 min. reference forward	0,000 1/min
9	RO		020Ah	ru10	encoder 2 speed	0,000 1/min	1495 RW	0307h oP07 min. reference reverse	-1: = forward parameter
10	RO		020Bh	ru11	set torque display	0,00 Nm	1496 RW	030Ah oP10 max. reference forward	2100,000 1/min
11	RO		020Ch	ru12	actual torque display	0,00 Nm			
12	RO		020Dh	ru13	actual utilization	0 %			
13	RW		020Eh	ru14	peak utilization	0 %			
14	RO		020Fh	ru15	apparent current	0,0 A			
15	RW		0210h	ru16	peak apparent current	0,0 A			
16	RO		0211h	ru17	active current	0,0 A			
17	RO		0212h	ru18	actual DC voltage	0 V			
18	RW		0213h	ru19	peak DC voltage	0 V			
19	RO		0214h	ru20	output voltage	0 V			
20	RO		0215h	ru21	input terminal state	0: no input			
21	RO		0216h	ru22	internal input state	0: no input			

0300h oP00 reference source 0: analog REF
 0301h oP01 rotation source 7: reference, no LS
 0302h oP02 rotation setting 0: low speed
 0303h oP03 reference setting 0,000 1/min
 0305h oP05 reference setting % 0,0 %
 0306h oP06 min. reference forward 0,000 1/min
 0307h oP07 min. reference reverse -1: = forward parameter
 030Ah oP10 max. reference forward 2100,000 1/min

OE18h In24 last error 0: no operation
 OE19h In25 error diagnosis no error+0000h

0300h oP00 reference source 0: analog REF
 0301h oP01 rotation source 7: reference, no LS
 0302h oP02 rotation setting 0: low speed
 0303h oP03 reference setting 0,000 1/min
 0305h oP05 reference setting % 0,0 %
 0306h oP06 min. reference forward 0,000 1/min
 0307h oP07 min. reference reverse -1: = forward parameter
 030Ah oP10 max. reference forward 2100,000 1/min

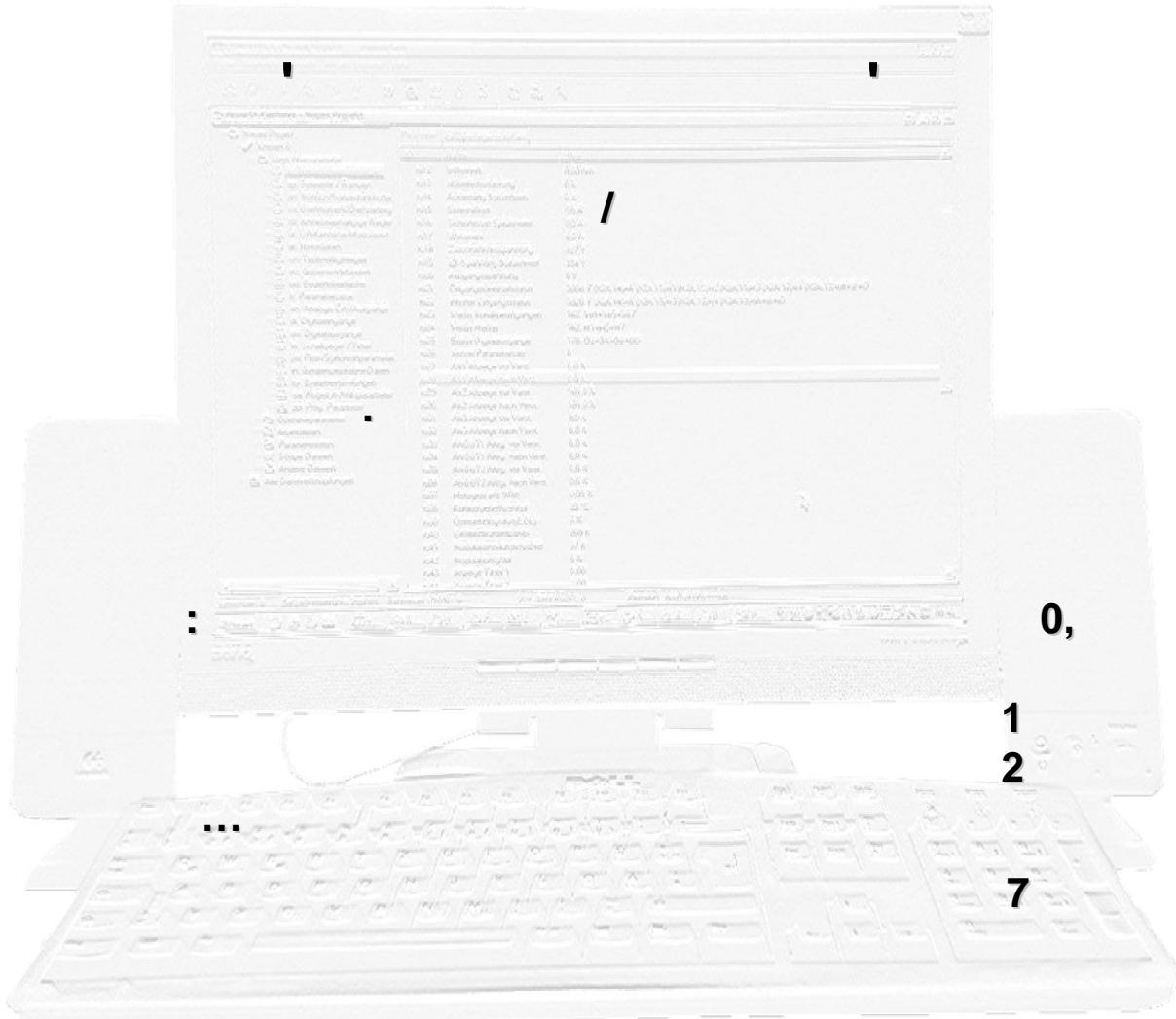
OE18h In24 last error 0: no operation
 OE19h In25 error diagnosis no error+0000h

0300h oP00 reference source 0: analog REF
 0301h oP01 rotation source 7: reference, no LS
 0302h oP02 rotation setting 0: low speed
 0303h oP03 reference setting 0,000 1/min
 0305h oP05 reference setting % 0,0 %
 0306h oP06 min. reference forward 0,000 1/min
 0307h oP07 min. reference reverse -1: = forward parameter
 030Ah oP10 max. reference forward 2100,000 1/min

OE18h In24 last error 0: no operation
 OE19h In25 error diagnosis no error+0000h

0300h oP00 reference source 0: analog REF
 0301h oP01 rotation source 7: reference, no LS
 0302h oP02 rotation setting 0: low speed
 0303h oP03 reference setting 0,000 1/min
 0305h oP05 reference setting % 0,0 %
 0306h oP06 min. reference forward 0,000 1/min
 0307h oP07 min. reference reverse -1: = forward parameter
 030Ah oP10 max. reference forward 2100,000 1/min

KEBCOMBIVIS



KEBCOMBIVIS 5 - New project :muenchen

File Edit View Application Stacker Crane.dw5 Windows Help

Download to inverter
Upload from inverter
Complete list
Compress
Compare List
Settings

D:\Präsentationen\Sch

Crane.dw5 Node 0

123	R / W	Set	Addr	ID	Parameter	Value	Remarks
0	WA	I	0801h	Ud01	password	440	
1							
2	RW	I	0802h	Ud02	control type	4: F5-M / 4000 rpm	
3	WO	I	0901h	Fr01	copy parameter set	-4: KEBdef/cust+sys/all ...	
4							
5	RW	I	0006h	Sy06	inverter address	1	
6	RW	I	0007h	Sy07	baud rate ext. bus	5: 38,4 kBaud	
7							
8	WA	I	0909h	Fr09	indirect set pointer	0	
9							
10	RW	I	0300h	oP00	reference source	5: set speed value (sy.52)	Reference source for manual mode
11	RW	I	030Ah	oP10	max. reference forward	2100,000 1/min	
12	RW	I	030Eh	oP14	abs. max. reference for	4000,000 1/min	
13	RW	I	0315h	oP21	step value 1	100,000 1/min	
14	RW	I	0316h	oP22	step value 2	-100,000 1/min	
15	RW	I	0317h	oP23	step value 3	0,000 1/min	
16	RW	I	031Ch	oP28	acc. time for.	2,00 s	
17	RW	I	031Eh	oP30	dec. time for.	2,00 s	
18	RW	I	0320h	oP32	s-curve time acc. for.	1,00 s	
19							
20	RW	I	0403h	Pn03	E.EF stopping mode	0: ERROR, no auto retr	
21	RW	I	043Dh	Pn61	quick stop torque limit	10,92 Nm	
22	RW	I	043Ch	Pn60	quick stop dec time	2,00 s	
23	RW	I	0443h	Pn67	q.stop max.torq.com.sp	7,66 Nm	
24							
25	RW	I	0F00h	cS00	speed control config.	0: off	Speed control configuration
26	RW	I	0F06h	cS06	KP speed	300	
27	RW	I	0F09h	cS09	KI speed	100	
28	RW	I	0F13h	cS19	abs. torque ref	10,92 Nm	
29							
30	RW	I	0500h	uF00	rated frequency	50,0000 Hz	Basic adjustments for U/f mode
31	RW	I	0501h	uF01	boost	5,1 %	

Upload fromInverter

Process Upload (read parameter list)
from inverter Node 0 ?

Yes No

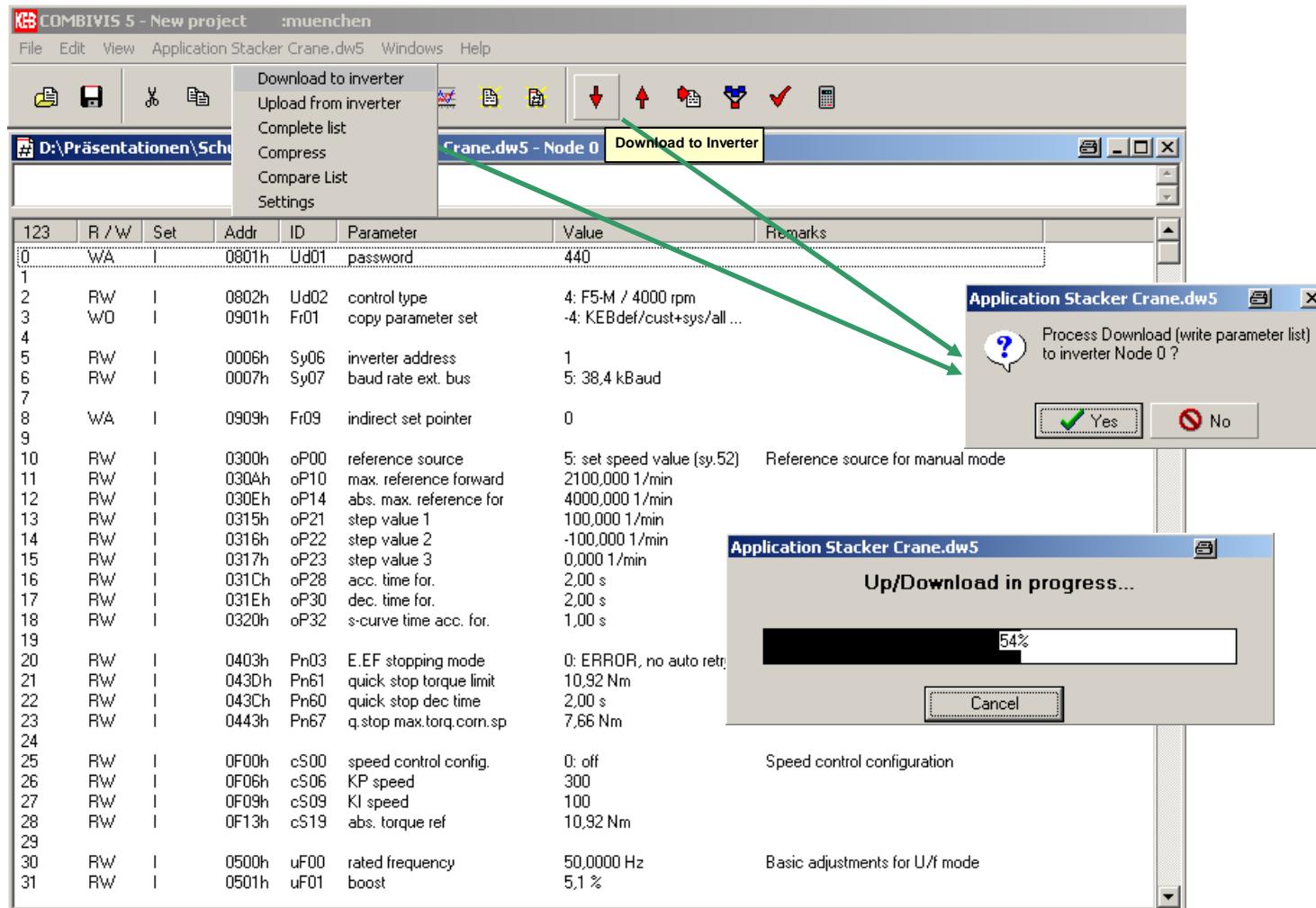
Up/Download in progress...
47%

Cancel



KEBCOMBIVIS





KEBCOMBIVIS



KE COMBIVIS 5 - New project :muenchen

File Edit View Project-explorer Help

New project
New Parameterlist
New Worklist
Parameter saving

Open Strg+O
Save Strg+S
Save as
Open ►
Save project
Save project as
Copy project
Print Strg+P
Quit

parameter parameter control para parameter
parameter parameter parameter ion para. mable para. parameter

di: digital input parameter
do: digital output parameter
le: level parameter
ps: pos/syn parameter
in: information parameter
sy: system parameter
aa: adjustment assist. para.
pp: prog. parameter

Operator parameter
Work lists
Download lists
Scope files
Additional files
All linked files

Parameter list | Group properties

ID:	Name:	Value:
► oP00	reference source	0: analog REF
► oP01	rotation source	7: reference, no LS
► oP02	rotation setting	0: low speed
► oP03	reference setting	0,000 1/min
► oP05	reference setting %	0,0 %
► oP06	min. reference forward	0,000 1/min
► oP07	min. reference reverse	-1: = forward parameter
► oP10	max. reference forward	2100,000 1/min
► oP11	max. reference reverse	-1: = forward parameter
► oP14	abs. max. reference for	4000,000 1/min
► oP15	abs. max. reference rev	-1: = forward parameter
► oP18	step value rot. source	7: reference, no LS
oP19	step value input sel. 1	16: I1
oP20	step value input sel. 2	32: I2
► oP21	step value 1	100,000 1/min
► oP22	step value 2	-100,000 1/min
► oP23	step value 3	0,000 1/min
► oP27	acc dec mode	0: FACC const. ramp+FDEC cor
► oP28	acc. time for.	5,00 s
► oP29	acc. time rev.	-1: = forward parameter
► oP30	dec. time for.	5,00 s
► oP31	dec. time rev.	-1: = forward parameter
► oP32	s-curve time acc. for.	0: off
► oP33	s-curve time acc. rev.	-1: = forward parameter
► oP34	s-curve time dec. for.	-1: = acc. parameter
► oP35	s-curve time dec. rev.	-1: = forward parameter

Öffnen

Suchen in: Schulung

Application Stacker Crane1.dw5
crane1 x-axis.dw5

Dateiname: Application Stacker Crane1.dw5
Dateityp: Parameter lists (*.dw5;*.dwn;*.op5)

Öffnen Abbrechen

Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password

KEB COMBIVIS 5 - New project :muenchen

File Edit View New Parameterlist1 Help

Project-explorer - New project

New project Node 0

- Inverter parameter
 - ru: run parameter
 - op: operational parameter
 - pn: protection parameter
 - cs: control speed parameter
 - ds: drive spec. control para
 - uf: u/f parameter
 - dr: drive parameter
 - cn: control parameter
 - ec: encoder parameter
 - ud: user definition para.
 - fr: free programmable para.
 - an: analog I/O parameter
 - di: digital input parameter
 - do: digital output parameter
 - le: level parameter
 - ps: pos/syn parameter
 - in: information parameter
 - sy: system parameter
 - aa: adjustment assist. para.
 - pp: prog. parameter
- Operator parameter
- Work lists
- Download lists
- Scope files
- Additional files
- All linked files

Parameter list | Group properties

ID:	Name:	Value:
► oP00	reference source	
► oP01	rotation source	
► oP02	rotation setting	
► oP03	reference setting	
► oP05	reference setting %	
► oP06	min. reference forward	
► oP07	min. reference reverse	
► oP10	max. reference forward	
► oP11	max. reference reverse	
► oP14	abs. max. reference for	
► oP15	abs. max. reference rev	
► oP18	step value rot. source	
oP19	step value input sel. 1	
oP20	step value input sel. 2	
► oP21	step value 1	
► oP22	step value 2	
► oP23	step value 3	
► oP27	acc dec mode	
► oP28	acc. time for.	
► oP29	acc. time rev.	
► oP30	dec. time for.	
► oP31	dec. time rev.	
► oP32	s-curve time acc. for.	
► oP33	s-curve time acc. rev.	
► oP34	s-curve time dec. for.	
► oP35	s-curve time dec. rev.	

New Parameterlist1 - Inverter:-1

0	R / W	Set	Addr	ID	Parameter	Value	Remarks

New Parameterlist1

No parameter information for type 2116/10516 available.
Add new inverter with matching type?

Yes No Cancel

!!!

Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password

KEB COMBIVIS 5 - New project :muenchen

File Edit View New Parameterlist1 Help

Project-explorer - New project

New project Node 0

- Inverter parameter
 - ru: run parameter
 - op: operational parameter
 - pn: protection parameter
 - cs: control speed parameter
 - ds: drive spec. control para
 - uf: u/f parameter
 - dr: drive parameter
 - cn: control parameter
 - ec: encoder parameter
 - ud: user definition para.
 - fr: free programmable para.
 - an: analog I/O parameter
 - di: digital input parameter
 - do: digital output parameter
 - le: level parameter
 - ps: pos/syn parameter
 - in: information parameter
 - sy: system parameter
 - aa: adjustment assist. para.
 - pp: prog. parameter
- Operator parameter
- Work lists
- Download lists
- Scope files
- Additional files
- All linked files

Parameter list | Group properties |

ID:	Name:	Value:
► oP00	reference source	
► oP01	rotation source	
► oP02	rotation setting	
► oP03	reference setting	
► oP05	reference setting %	
► oP06	min. reference forward	
► oP07	min. reference reverse	
► oP10	max. reference forward	
► oP11	max. reference reverse	
► oP14	abs. max. reference for	
► oP15	abs. max. reference rev	
► oP18	step value rot. source	
oP19	step value input sel. 1	
oP20	step value input sel. 2	
► oP21	step value 1	
► oP22	step value 2	
► oP23	step value 3	
► oP27	acc dec mode	
► oP28	acc. time for.	
► oP29	acc. time rev.	
► oP30	dec. time for.	
► oP31	dec. time rev.	
► oP32	s-curve time acc. for.	
► oP33	s-curve time acc. rev.	
► oP34	s-curve time dec. for.	
► oP35	s-curve time dec. rev.	

D:\Präsentationen\Schulung\Application Stacker Crane1.dw5 - Node 0

123	R / W	Set	Addr	ID	Parameter	Value	Remarks
0	WA	I	0801h	Ud01	password	440	
1							
2	RW	I	0802h	Ud02	control type	4: F5-M / 4000 rpm	
3	WO	I	0901h	Fr01	copy parameter set	-4: KEBdef/cust+sys/all ...	
4							
5	RW	I	0006h	Sy06	inverter address	1	
6	RW	I	0007h	Sy07	baud rate ext. bus	5: 38,4 kBaud	
7							
8	WA	I	0909h	Fr09	indirect set pointer	0	
9							
10	RW	I	0300h	oP00	reference source	5: set speed value (sy.52)	Reference source fo
11	RW	I	030Ah	oP10	max. reference forward	2100,000 1/min	
12	RW	I	030Eh	oP14	abs. max. reference for	4000,000 1/min	
13	RW	I	0315h	oP21	step value 1	100,000 1/min	
14	RW	I	0316h	oP22	step value 2	-100,000 1/min	
15	RW	I	0317h	oP23	step value 3	0,000 1/min	

5,00 s
 -1: = forward parameter
 0: off
 -1: = forward parameter
 -1: = acc. parameter
 -1: = forward parameter

Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password

KEB COMBIVIS 5 - New project :muenchen

File Edit View Application Stacker Crane1.dw5 Windows Help

Project-explorer - New project

Parameter list Group properties

Application Stacker Crane1.dw5

Process Download (write parameter list) to inverter Node 0 ?

Yes No

ID:	Name:	Value	Remarks
0	WA	I	0801h Ud01 password 440
1	RW	I	0802h Ud02 control type 4: F5-M / 4000 rpm
2	WO	I	0901h Fr01 copy parameter set -4: KEBdef/cust+sys/all ...
3	RW	I	0006h Sy06 inverter address 1
4	RW	I	0007h Sy07 baud rate ext. bus 5: 38,4 kBaud
5	WA	I	0909h Fr09 indirect set pointer 0
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The screenshot shows the KEB COMBIVIS 5 software interface for a 'New project' titled 'muenchen'. The top menu bar includes File, Edit, View, New Parameterlist1, Help, and various toolbar icons. The left sidebar contains a 'Project-explorer' tree view with sections like 'New project', 'Node 0', 'Inverter parameter' (expanded to show categories like ru, op, pn, cs, ds, uf, dr, cn, ec, ud, fr, an, di, do, le, ps, in, sy, aa, pp), 'Operator parameter' (Work lists, Download lists, Scope files, Additional files, All linked files), and 'All linked files'. The main workspace displays a 'Parameter list' tab with a table:

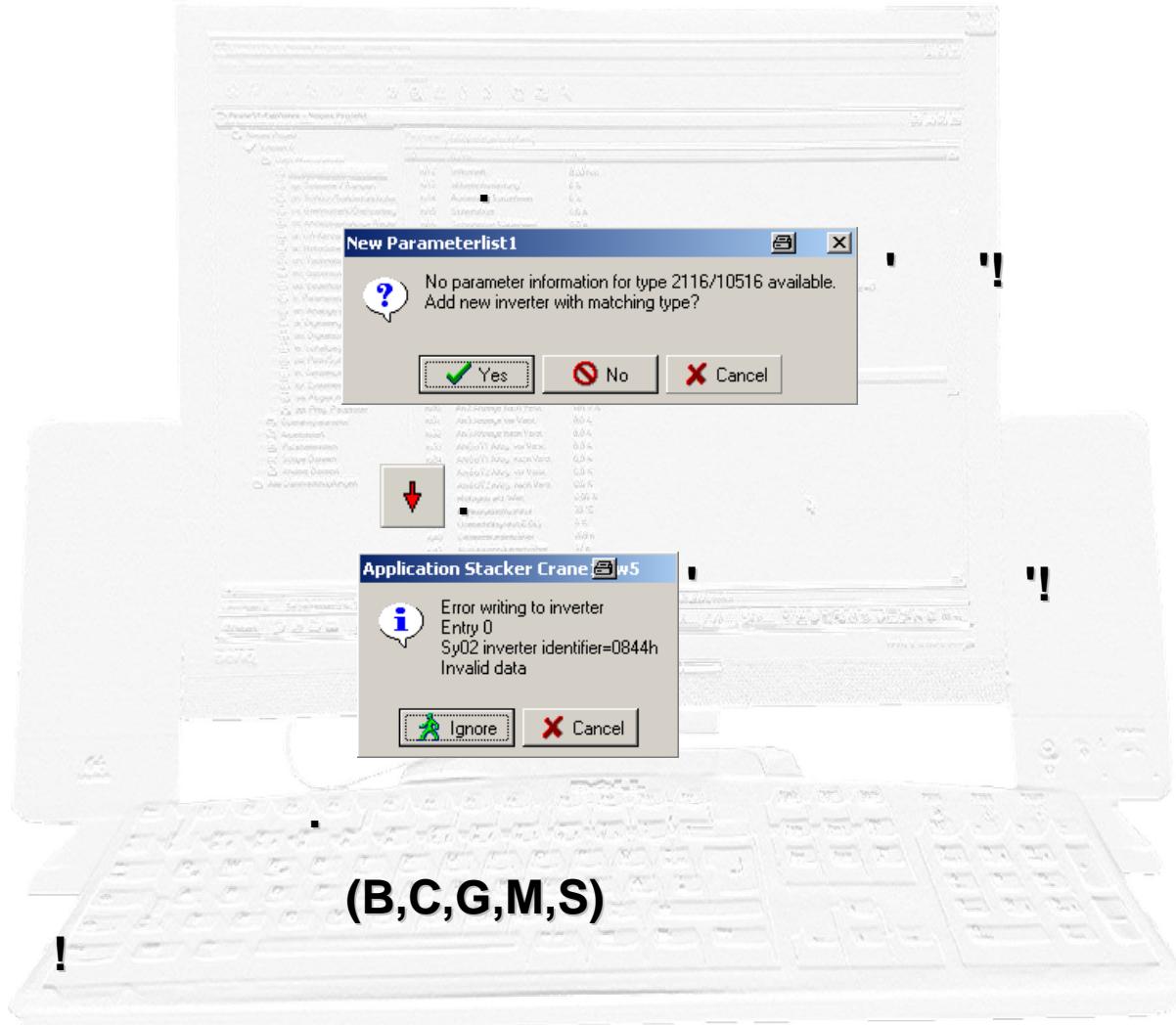
ID:	Name:	Value:
► oP00	reference source	
► oP01	rotation source	
► oP02	rotation setting	
► oP03	reference setting	
► oP05	reference setting %	
► oP06	min. reference forward	
► oP07	min. reference reverse	
► oP10	max. reference forward	
► oP11	max. reference reverse	
► oP14	abs. max. reference for	
► oP15	abs. max. reference rev	
► oP18	step value rot. source	

An 'Application Stack' window is open, showing a table of parameters and their values:

#	D:\Präsentationen\Schulung\Application Stacker Crane1.dw5 - Node 0	123	R / W	Set	Addr	ID	Parameter	Value	Remarks
0	WA	I	0801h	Ud01	password	440			
1									
2	RW	I	0802h	Ud02	control type	4: F5-M / 4000 rpm			
3	WO	I	0901h	Fr01	copy parameter set	-4: KEBdef/cust+sys/all ...			
4									
5	RW	I	0006h	Sy06	inverter address	1			
6	RW	I	0007h	Sy07	baud rate ext. bus	5: 38,4 kBaud			
7									
8	WA	I	0909h	Fr09	indirect set pointer	0			

A modal dialog box in the center says 'Application Stacker (Crane1...)' with 'Up/Download finished.' and a green checkmark 'Ok' button.

The bottom status bar shows: Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password



• Ud.02,

(B,C,G,M,S)

KEB COMBIVIS 5 - New project :muenchen

File Edit View Project-explorer Help

New project New Parameterlist New Worklist Parameter saving

Open Strg+O Save Strg+S Save as Strg+A Open

Save project Save project as Copy project Print Strg+P Quit

di: digital input parameter do: digital output parameter

Edit node addr.

Select inverter for complete parameter saving

0 Node 0 Ok Cancel

Operator parameter Work lists Download lists Scope files Additional files All linked files

Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password

New Parameterlist1 - Node 0

ID: Name: **New Parameterlist1**

Please select set order for the complete list:

Parameter	Value	Remarks
ru00	inverter	
ru01	set value	
ru02	ramp out	
ru03	actual freq	
ru06	calculate	Indirect Joined parameters Joined sets
ru07	actual value display	
ru09	encoder 1 speed	
ru10	encoder 2 speed	
ru11	set torque display	
ru12	actual torque display	
ru13	actual utilization	
ru14	peak utilization	
ru15	apparent current	
ru16	peak apparent current	
ru22	internal input state	
ru23	output condition state	
ru24	state of output flags	
ru25	output terminal state	
ru26	active parameter set	0
ru27	AN1 pre amplifier disp.	0,0 %
ru28	AN1 post amplifier disp.	0,0 %

New Parameterlist1

The actual node contains operator parameters. Should they be added to the complete list?

Yes No

KEB COMBIVIS 5 - New project :muenchen

File Edit View Project-explorer Help

Project-explorer - New project

- New project
 - Node 0
 - Inverter parameter
 - R: ru: run parameter
 - O: op: operational parameter
 - P: pn: protection parameter
 - C: cs: control speed parameter
 - S: ds: drive spec. control para
 - B: uf: u/f parameter
 - D: dr: drive parameter
 - N: cn: control parameter
 - E: ec: encoder parameter
 - U: ud: user definition para.
 - F: fr: free programmable para.
 - A: an: analog I/O parameter
 - G: di: digital input parameter
 - T: do: digital output parameter
 - L: le: level parameter
 - H: ps: pos/syn parameter
 - I: in: information parameter
 - V: sy: system parameter
 - Z: aa: adjustment assist. para.
 - M: pp: prog. parameter
 - Operator parameter
 - Work lists
 - Download lists
 - Scope files
 - Additional files
 - All linked files

Parameter list | Group properties

ID:	Name:	R / W	Set	Addr	ID	Parameter	Value	Remarks
0	inverter state	WA	I	0801h	Ud01	password	0	
1	set value display	WA	I	0909h	Fr09	indirect set pointer	0	
2	ramp output display	WA	I	0002h	Sy02	inverter identifier	2212: F5A-M/V4.00 400...	
3	actual frequency display	WA	I	0909h	Fr09	indirect set pointer	0	
4	calculated act. value	RO	I	0200h	ru00	inverter state	0: no operation	
5	actual value display	RO	I	0201h	ru01	set value display	0,000 1/min	
6	encoder 1 speed	RO	I	0202h	ru02	ramp output display	0,000 1/min	
7	encoder 2 speed	RO	I	0203h	ru03	actual frequency display	0,0000 Hz	
8	set torque display	RO	I	0206h	ru06	calculated act. value	0,000 1/min	
9	actual torque display	RO	I	0207h	ru07	actual value display	0,000 1/min	
10	actual utilization	RO	I	0209h	ru09	encoder 1 speed	0,000 1/min	
11	peak utilization	RO	I	020Ah	ru10	encoder 2 speed	0,000 1/min	
12	apparent current	RO	I	020Bh	ru11	set torque display	0,00 Nm	
13	peak apparent current	RO	I	020Ch	ru12	actual torque display	0,00 Nm	
14	active current	RO	I	020Dh	ru13	actual utilization	0 %	
15	actual DC voltage	RO	I					
16	peak DC voltage	RO	I					
17	output voltage	RO	I					
18	input terminal state	RO	I					
19	internal input state	RO	I					
20	output condition state	RO	I					
21	state of output flags	RO	I					
22	output terminal state	RO	I					
23	active parameter set	RO	I					
24	AN1 pre amplifier disp.	RO	I					
25	AN1 post amplifier disp.	RO	I					
26		RO	I					
27		RO	I					
28		RO	I					

New Parameterlist1 - Node 0

329 V
0 V
0: no input
0: no input
2: C1
2: F1
2: 02
0
0,0 %
0,0 %

New Parameterlist1

Up/Download finished.

Ok

Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password

KEB COMBIVIS 5 - New project :muenchen

File Edit View Project-explorer Help

Project-explorer - New project

- New project
 - Node 0
 - Inverter parameter
 - R: ru: run parameter
 - O: op: operational parameter
 - P: pn: protection parameter
 - C: cs: control speed parameter
 - S: ds: drive spec. control para
 - B: uf: u/f parameter
 - D: dr: drive parameter
 - N: cn: control parameter
 - E: ec
 - ud
 - fr:
 - an
 - di:
 - do
 - le:
 - ps
 - in:
 - sy:
 - aa
 - pp
 - Operal
 - Work
 - Downl
 - Scope
 - Addit...

Dateiname: Inverter 1 complete Speichern Dateityp: Parameter lists (*.dw5) Abbrechen

New Parameterlist1 - Node 0

ID:	Name:	R / W	Set	Addr	ID	Parameter	Value	Remarks
0	inverter state	WA	I	0801h	Ud01	password	0	
1	set value display	WA	I	0909h	Fr09	indirect set pointer	0	
2	ramp output display	WA	I	0002h	Sy02	inverter identifier	2212: F5A-M/V4.00 400...	
3	actual frequency display	WA	I	0909h	Fr09	indirect set pointer	0	
4	calculated act. value	RO	I	0200h	ru00	inverter state	0: no operation	
5	actual value display	RO	I	0201h	ru01	set value display	0,000 1/min	
6	encoder 1 speed	RO	I	0202h	ru02	ramp output display	0,000 1/min	
7	encoder 2 speed	RO	I	0203h	ru03	actual frequency display	0,0000 Hz	
8		RO	I	0206h	ru06	calculated act. value	0,000 1/min	
9		RO	I	0207h	ru07	actual value display	0,000 1/min	
		RO	I	0209h	ru09	encoder 1 speed	0,000 1/min	
		RO	I	020Ah	ru10	encoder 2 speed	0,000 1/min	
		RO	I	020Bh	ru11	set torque display	0,00 Nm	
		RO	I	020Ch	ru12	actual torque display	0,00 Nm	
		RO	I	020Dh	ru13	actual utilization	0 %	

All linked files

ru20	active parameter set	0
ru27	AN1 pre amplifier disp.	0,0 %
ru28	AN1 post amplifier disp.	0,0 %

Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password

KEBCOMBIVIS



KEB COMBIVIS 5 - New project :muenchen

File Edit View Default F5-M.dw5 Windows Help

Project-explor

- New project
- Node 0**
 - Inverter parameter
 - R: ru: run parameter
 - O: op: operational parameter**
 - P: pn: protection parameter
 - C: cs: control speed parameter
 - S: ds: drive spec. control para
 - B: uf: u/f parameter
 - D: dr: drive parameter
 - N: cn: control parameter
 - E: ec: encoder parameter
 - U: ud: user definition para.
 - F: fr: free programmable para.
 - A: an: analog I/O parameter
 - G: di: digital input parameter
 - T: do: digital output parameter
 - L: le: level parameter
 - H: ps: pos/syn parameter
 - I: in: information parameter
 - V: sy: system parameter
 - Z: aa: adjustment assist. para.
 - M: pp: prog. parameter
 - Operator parameter
 - Work lists
 - Download lists
 - Scope files
 - Additional files
 - All linked files

Parameter list Group properties Compare List

ID:	Name:	Value:
► oP00	reference source	
► oP01	rotation source	
► oP02	rotation setting	
► oP03	reference setting	
► oP05	reference setting %	
► oP06	min. reference forward	
► oP07	min. reference reverse	
► oP10	max. reference forward	
► oP11	max. reference reverse	
► oP14	abs. max. reference for	
► oP15	abs. max. reference rev	
► oP18	step value rot. source	
oP19	step value input sel. 1	
oP20	step value input sel. 2	
► oP21	step value 1	
► oP22	step value 2	
► oP23	step value 3	
► oP27	acc dec mode	
► oP28	acc. time for.	
► oP29	acc. time rev.	
► oP30	dec. time for.	
► oP31	dec. time rev.	
► oP32	s-curve time acc. for.	
► oP33	s-curve time acc. rev.	
► oP34	s-curve time dec. for.	
► oP35	s-curve time dec. rev.	

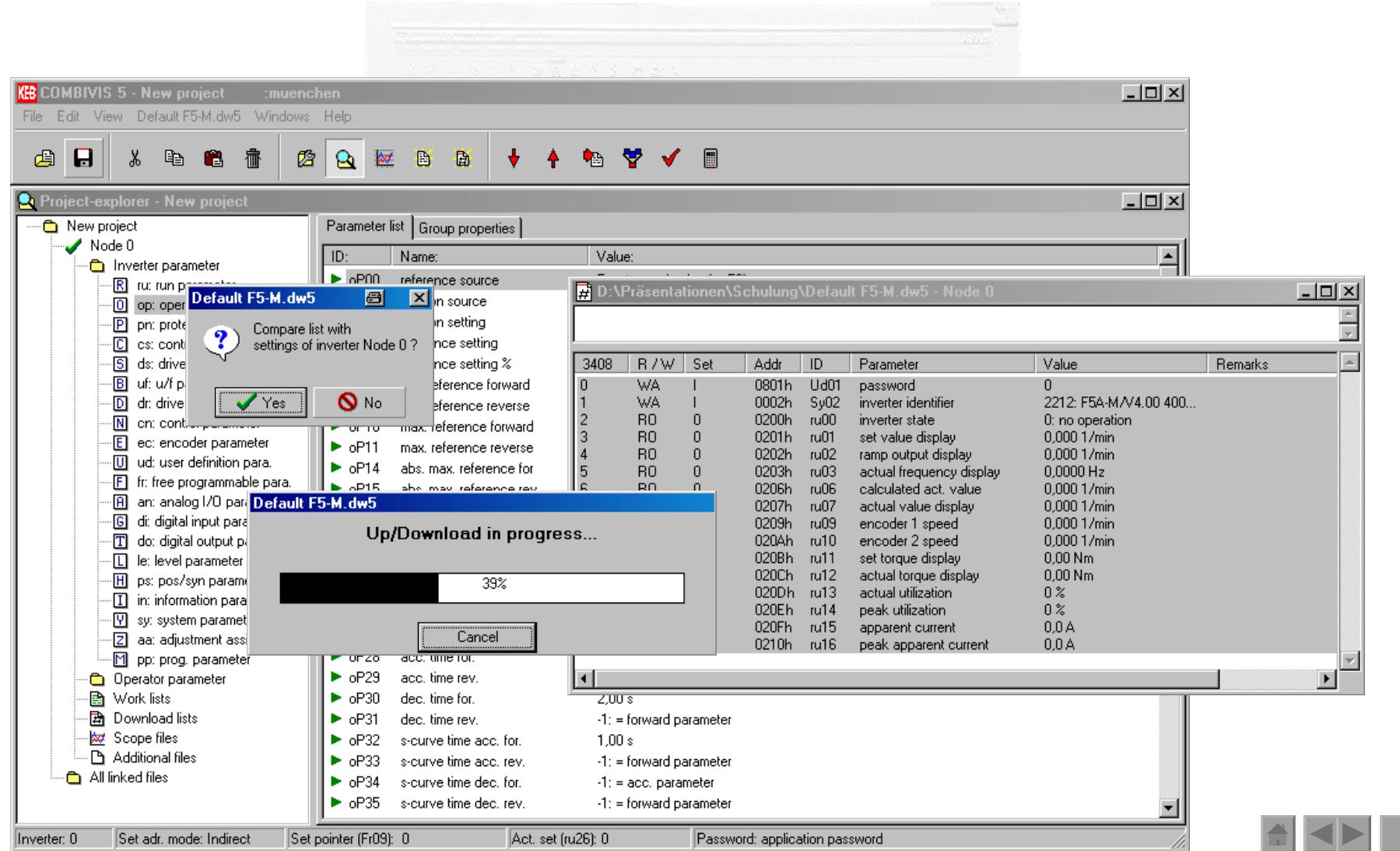
D:\Präsentationen\Schulung\Default F5-M.dw5 - Node 0

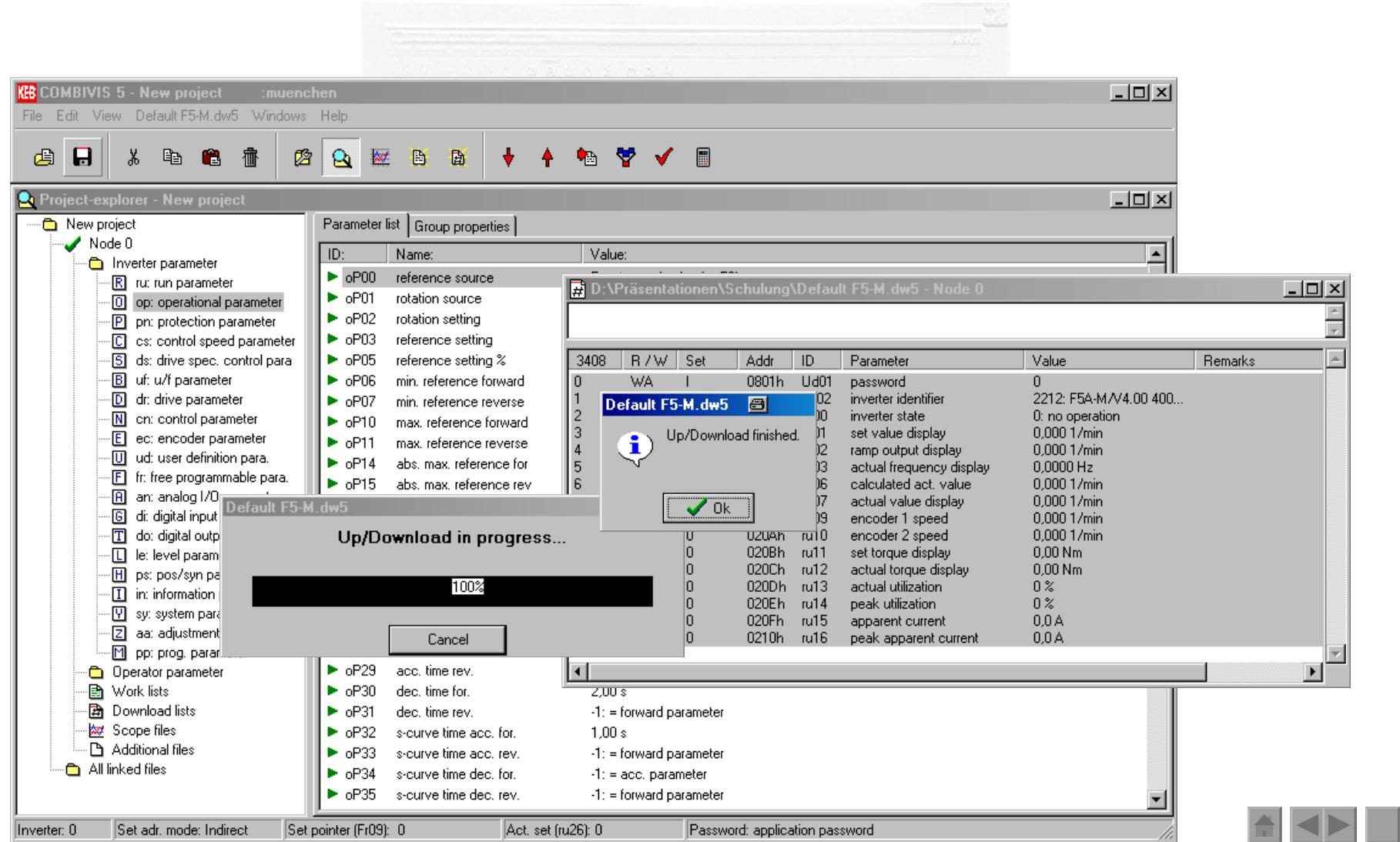
ID	R / W	Set	Addr	ID	Parameter	Value	Remarks
3408							
0	WA	I	0801h	Ud01	password	0	
1	WA	I	0002h	Sy02	inverter identifier	2212: F5A-M/V4.00 400...	
2	RO	0	0200h	ru00	inverter state	0: no operation	
3	RO	0	0201h	ru01	set value display	0,000 1/min	
4	RO	0	0202h	ru02	ramp output display	0,000 1/min	
5	RO	0	0203h	ru03	actual frequency display	0,0000 Hz	
6	RO	0	0206h	ru06	calculated act. value	0,000 1/min	
7	RO	0	0207h	ru07	actual value display	0,000 1/min	
8	RO	0	0209h	ru09	encoder 1 speed	0,000 1/min	
9	RO	0	020Ah	ru10	encoder 2 speed	0,000 1/min	
10	RO	0	020Bh	ru11	set torque display	0,00 Nm	
11	RO	0	020Ch	ru12	actual torque display	0,00 Nm	
12	RO	0	020Dh	ru13	actual utilization	0 %	
13	RW	0	020Eh	ru14	peak utilization	0 %	
14	RO	0	020Fh	ru15	apparent current	0,0 A	
15	RW	0	0210h	ru16	peak apparent current	0,0 A	

2,00 s

-1: = forward parameter

Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password





KB COMBIVIS 5 - New project :muenchen

File Edit View Default F5-M.dw5 Windows Help

Project-explorer - New project

New project

- Node 0
 - Inverter parameter
 - R: ru: run parameter
 - O: op: operational parameter
 - P: pn: protection parameter
 - C: cs: control speed parameter
 - S: ds: drive spec. control para
 - B: uf: u/f parameter
 - D: dr: drive parameter
 - N: cn: control parameter
 - E: ec: encoder parameter
 - U: ud: user definition para.
 - F: fr: free programmable para.
 - A: an: analog I/O parameter
 - G: di: digital input parameter
 - T: do: digital output parameter
 - L: le: level parameter
 - H: ps: pos/syn parameter
 - I: in: information parameter
 - V: sy: system parameter
 - Z: aa: adjustment assist. para.
 - M: pp: prog. parameter
 - Operator parameter
 - Work lists
 - Download lists
 - Scope files
 - Additional files

All linked files

Parameter list | Group properties

ID:	Name:	Value:
► oP00	reference source	
► oP01	rotation source	
► oP02	rotation setting	
► oP03	reference setting	
► oP05	reference setting %	
► oP06	min. reference forward	
► oP07	min. reference reverse	
► oP10	max. reference forward	
► oP11	max. reference reverse	
► oP14	abs. max. reference for	
► oP15	abs. max. reference rev	
► oP18	step value rot. source	
► oP19	step value input sel. 1	
► oP20	step value input sel. 2	
► oP21	step value 1	
► oP22	step value 2	
► oP23	step value 3	
► oP27	acc dec mode	
► oP28	acc. time for.	
► oP29	acc. time rev.	
► oP30	dec. time for.	
► oP31	dec. time rev.	
► oP32	s-curve time acc. for.	
► oP33	s-curve time acc. rev.	
► oP34	s-curve time dec. for.	
► oP35	s-curve time dec. rev.	

New Parameterlist1 - Node 0

ID	R / W	Set	Addr	ID	Parameter	Value	Remarks
11	RO	0	0229h	ru41	modulation on counter	149 h	
12	RO	0	022Dh	ru45	act. switching frequency	4: 16 kHz	
13	RO	0	022Fh	ru47	act torque limit mot.	0,08 Nm	
14	RO	0	0230h	ru48	act.torque limit gen.	0,08 Nm	
15	RO	0	0231h	ru49	ref. torque	10,92 Nm	
16	RO	0	0238h	ru59	rotor adaption factor	100 %	
17	RO	0	0244h	ru68	rated DC voltage	316 V	
18	RO	0	0247h	ru71	teach/scan position	1073741823 Inc	
19	RO	0	0250h	ru80	digital output state	2: 02	
20							
21	RW	0	0300h	oP00	reference source	5: set speed value (sy.52)	
22	RW	0	031Ch	oP28	acc. time for.	2,00 s	
23	RW	0	031Eh	oP30	dec. time for.	2,00 s	
24	RW	0	0320h	oP32	s-curve time acc. for.	1,00 s	
25							
26	RW	0	0419h	Ph25	LD voltage	375 V	

2,00 s
-1: = forward parameter
1,00 s
-1: = forward parameter
-1: = acc. parameter
-1: = forward parameter

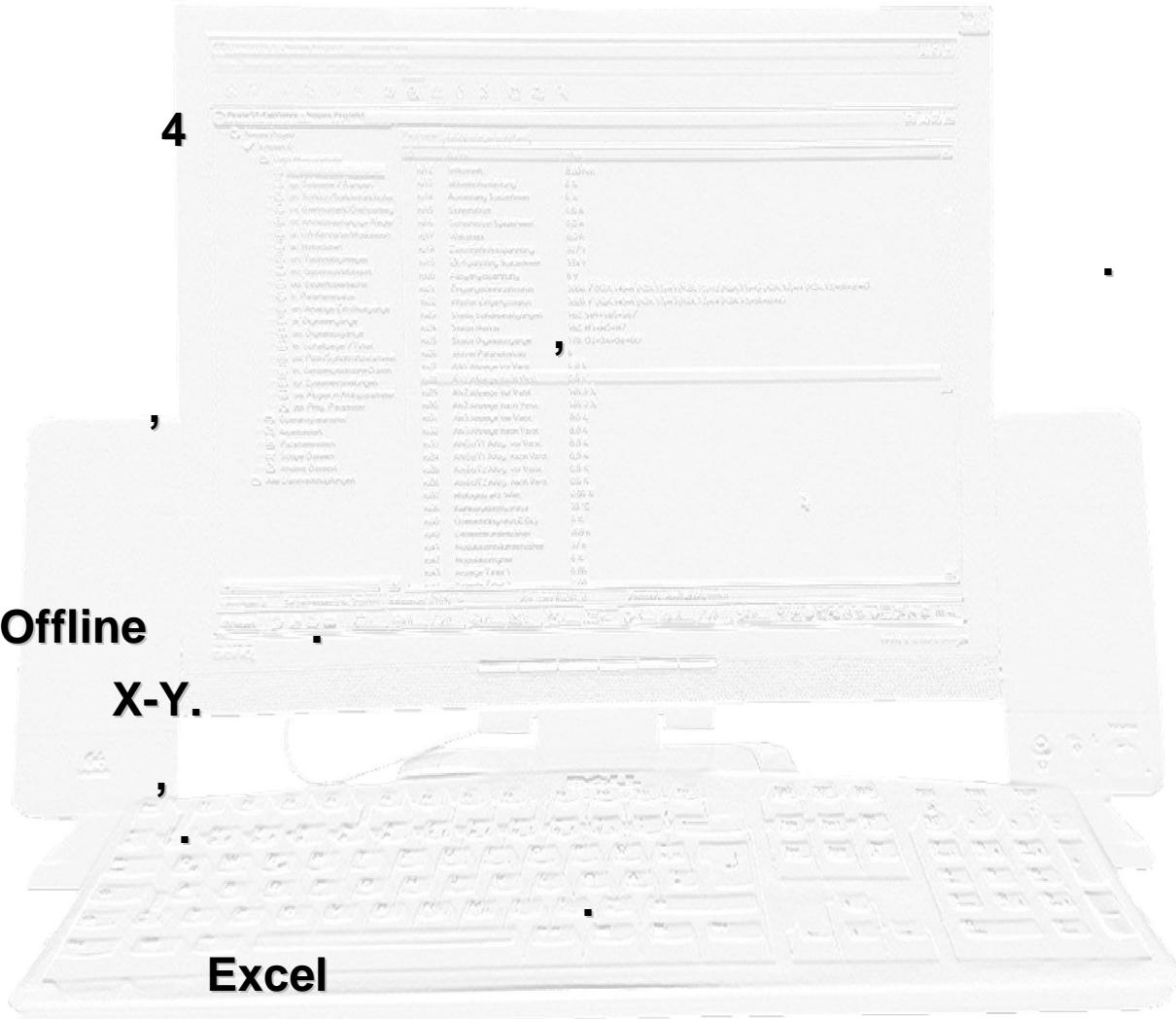
Inverter: 0 Set adr. mode: Indirect Set pointer (Fr09): 0 Act. set (ru26): 0 Password: application password

Combivis





4



KEB COMBIVIS 5 - New project :muenchen

File Edit View Project-explorer Help

Project-explorer Scope Operator parameter CP-Mode

New project Node 0

- Inverter parameter
 - ru: run parameter
 - op: operational parameter
 - pn: protection parameter
 - cs: control speed parameter
 - ds: drive spec. control para
 - uf: u/f parameter
 - dr: drive parameter
 - cn: control parameter
 - ec: encoder parameter
 - ud: user definition para.
 - fr: free programmable para.
 - an: analog I/O parameter
 - ai: digital input parameter
 - do: digital output parameter
 - le: level parameter
 - ps: pos/syn parameter
 - in: information parameter
 - sy: system parameter
 - aa: adjustment assist. para.
 - pp: prog. parameter
- Operator parameter
- Work lists
- Download lists
- Scope files
- Additional files
- All linked files

Hexadecimal display F12

Scope

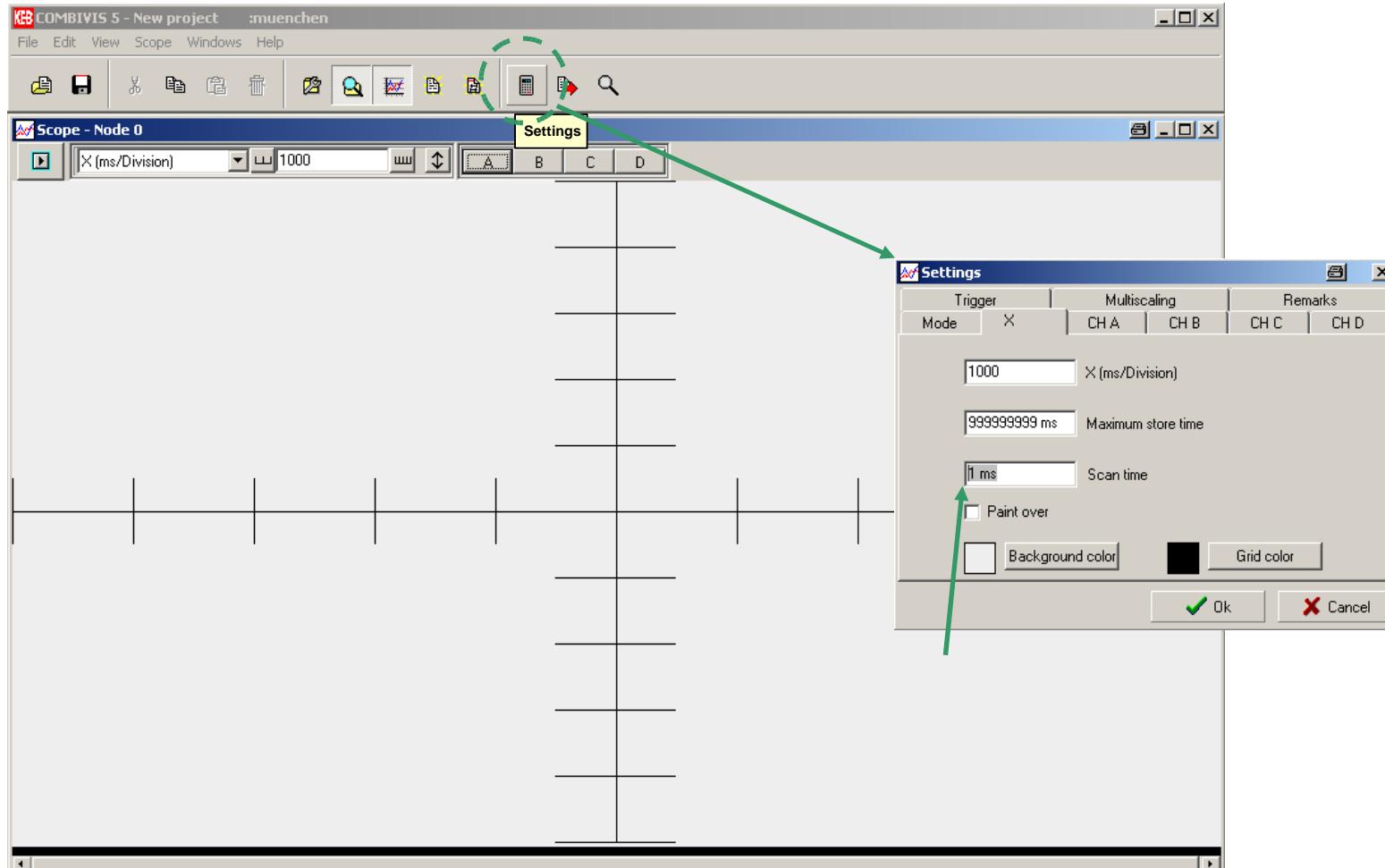
Parameter list Group properties

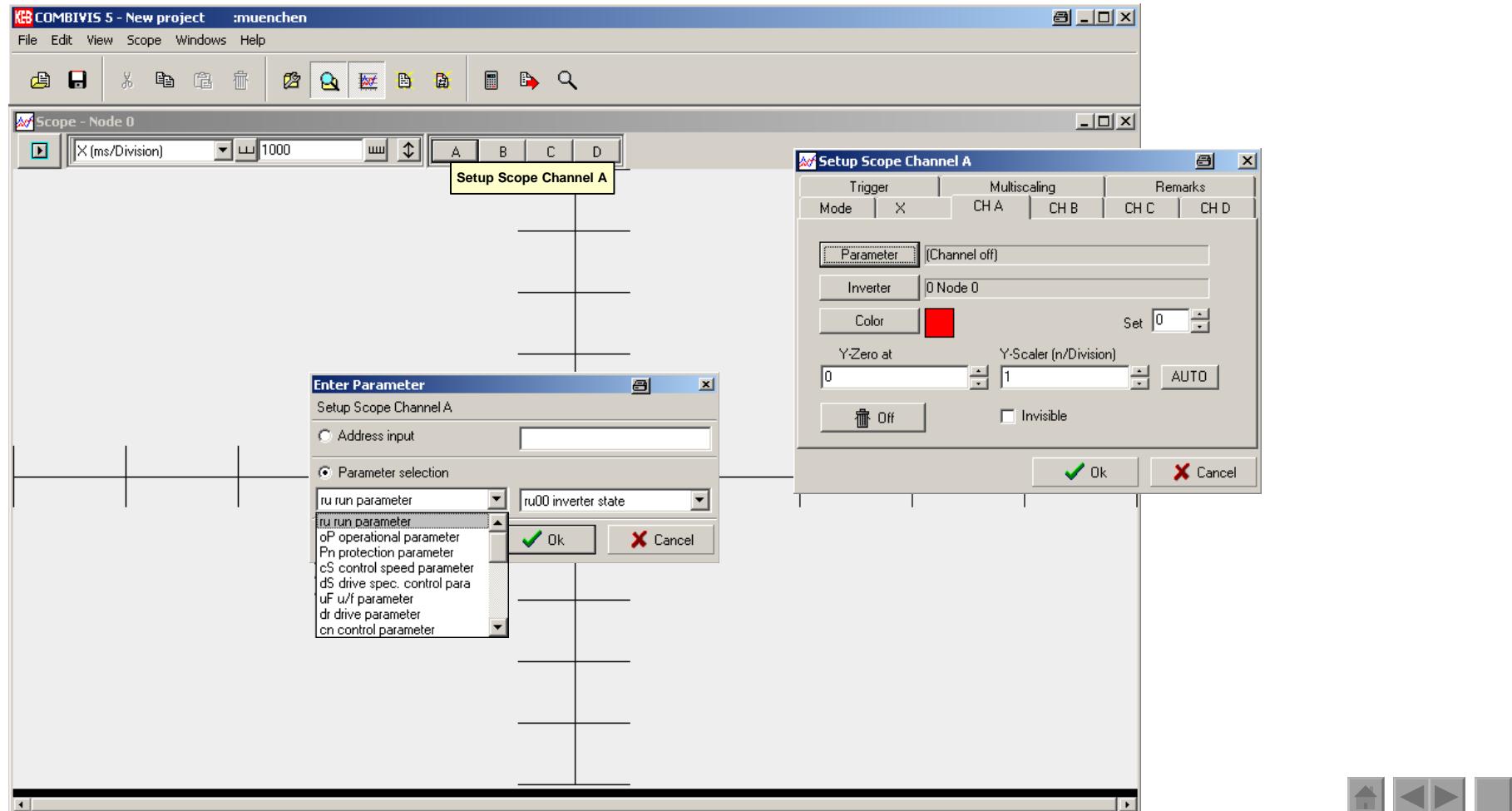
ID:	Name:	Value:
► oP00	reference source	5: set speed value (sy.52)
► oP01	rotation source	7: reference, no LS
► oP02	rotation setting	0: low speed
► oP03	reference setting	0,000 1/min
► oP05	reference setting %	0,0 %
► oP06	min. reference forward	0,000 1/min
► oP07	min. reference reverse	-1: = forward pa
► oP10	max. reference forward	2100,000 1/min
► oP11	max. reference reverse	-1: = forward pa
► oP14	abs. max. reference for	4000,000 1/min
► oP15	abs. max. reference rev	-1: = forward pa
► oP18	step value rot. source	7: reference, nc
oP19	step value input sel. 1	16: I1
oP20	step value input sel. 2	32: I2
► oP21	step value 1	100,000 1/min
► oP22	step value 2	-100,000 1/min
► oP23	step value 3	0,000 1/min
► oP27	acc dec mode	0: FACC const.
► oP28	acc. time for.	2,00 s
► oP29	acc. time rev.	-1: = forward pa
► oP30	dec. time for.	2,00 s
► oP31	dec. time rev.	-1: = forward pa
► oP32	s-curve time acc. for.	1,00 s
► oP33	s-curve time acc. rev.	-1: = forward parameter
► oP34	s-curve time dec. for.	-1: = acc. parameter
► oP35	s-curve time dec. rev.	-1: = forward parameter

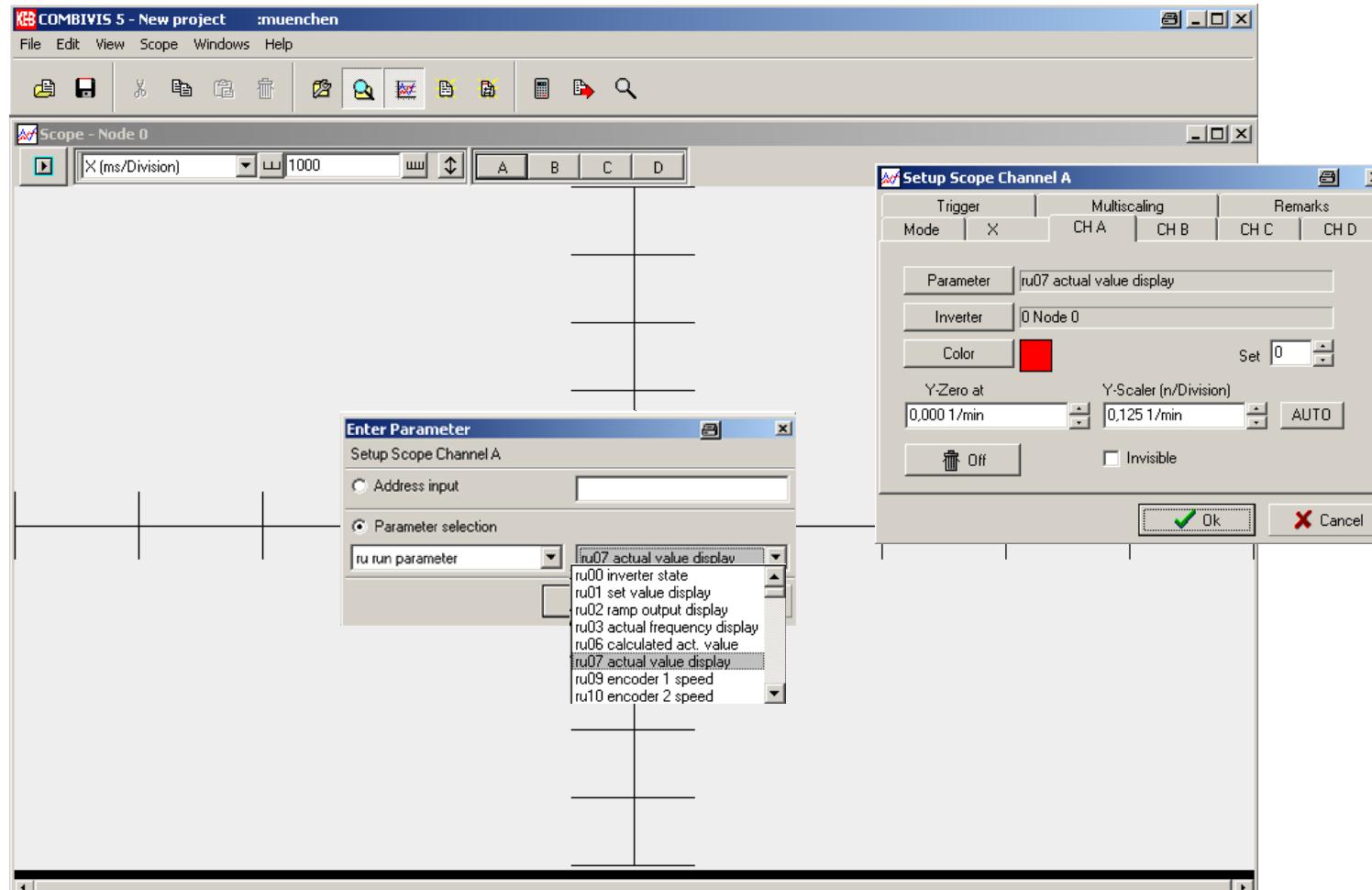
Scope - Node 0

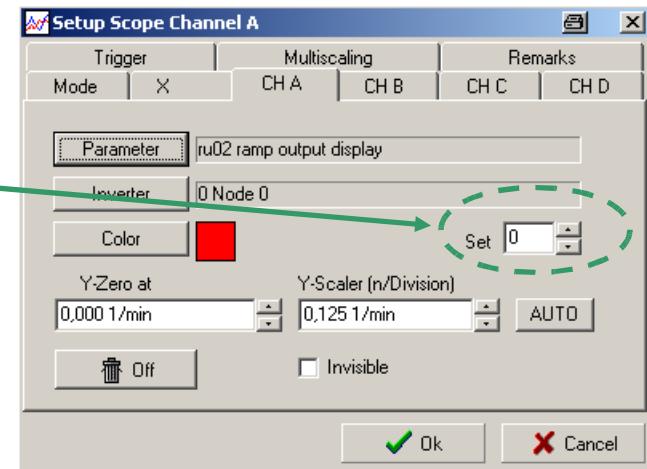
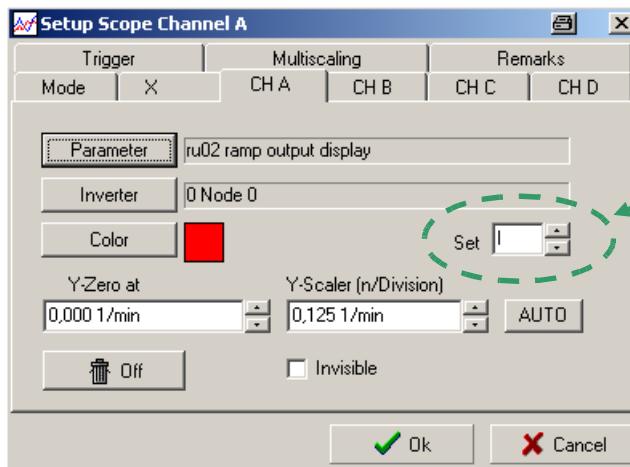
X (ms/Division) 1000 A B C D

(Online)







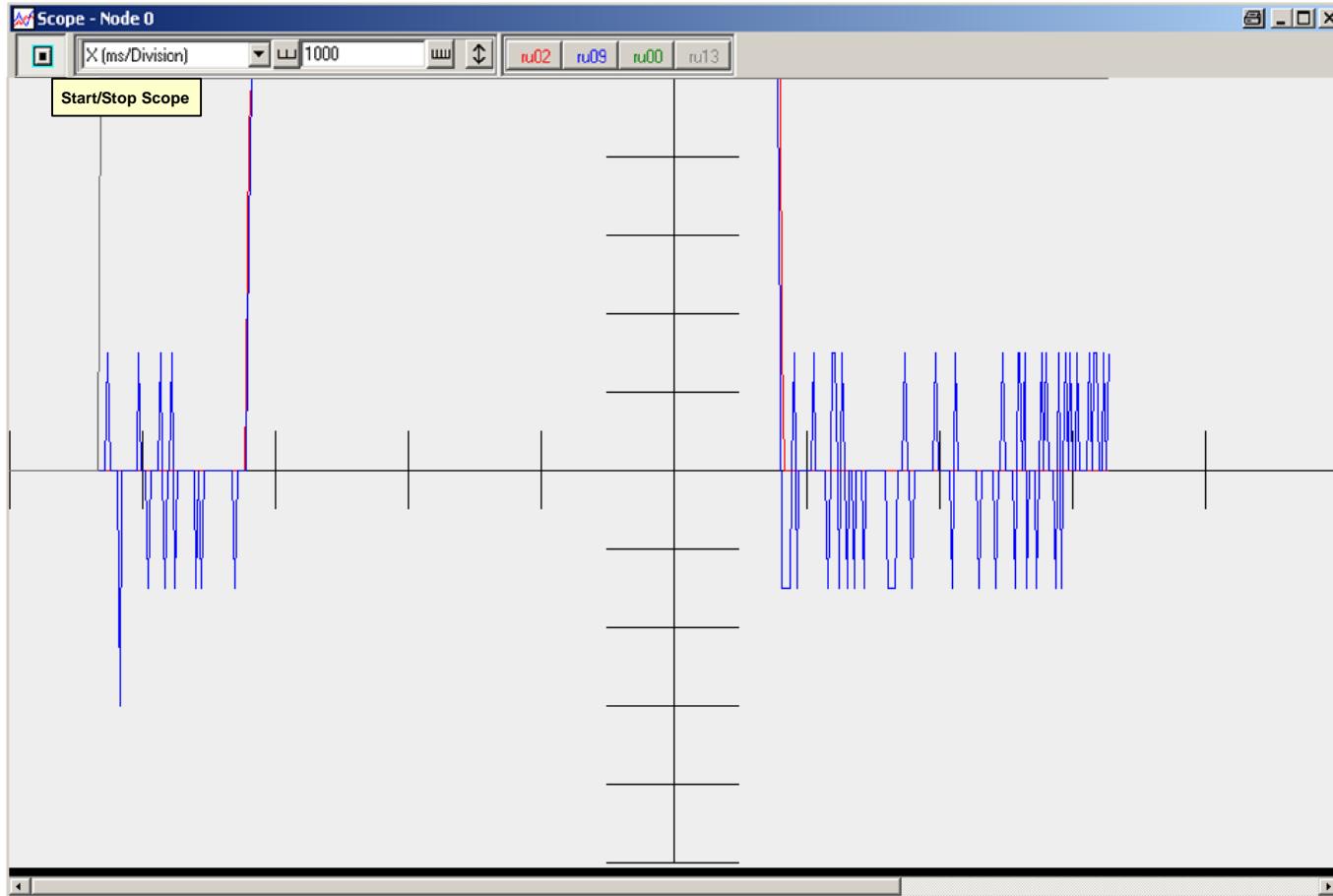


(Fr.09).

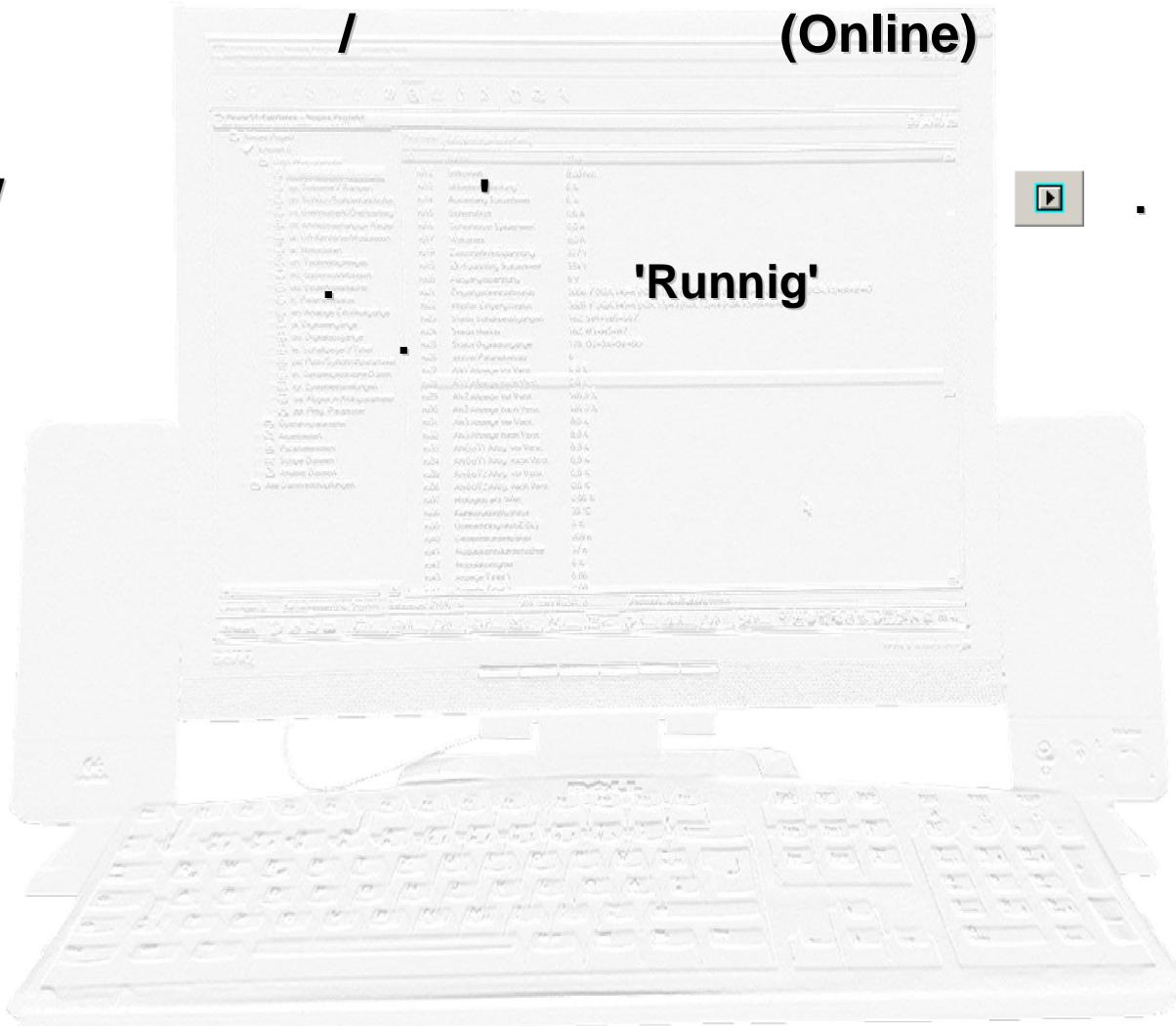


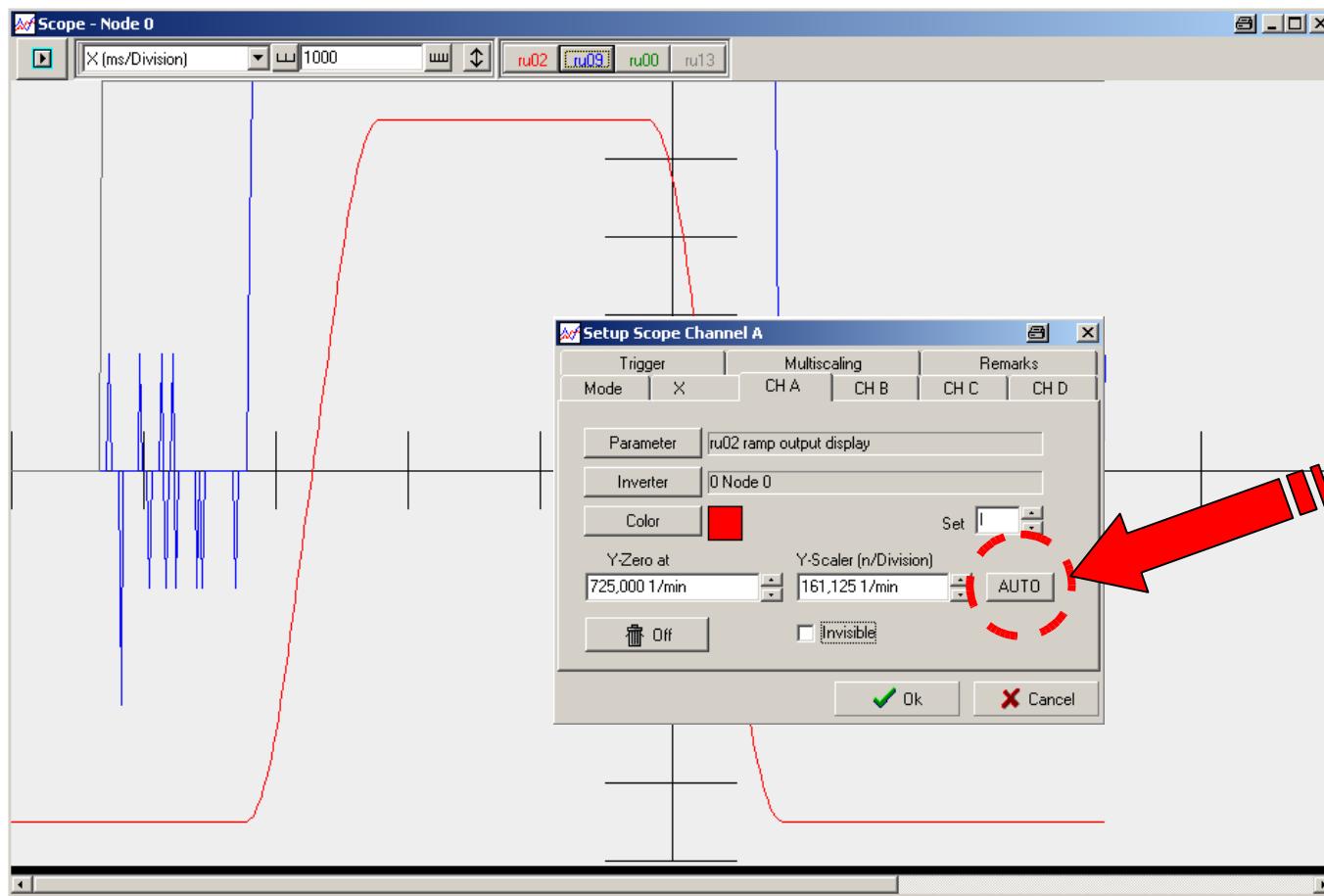


/ (Online)

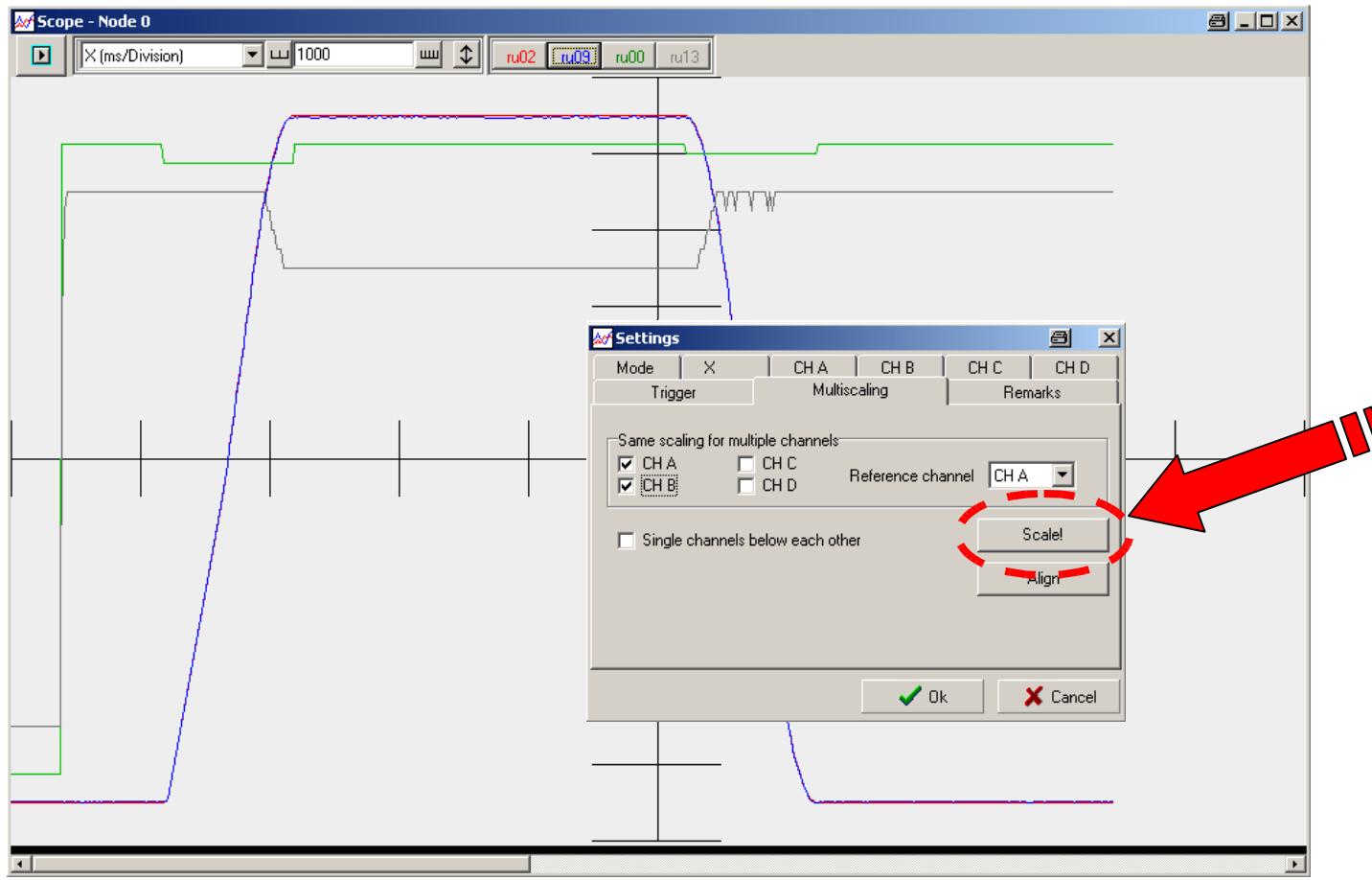


(Online)

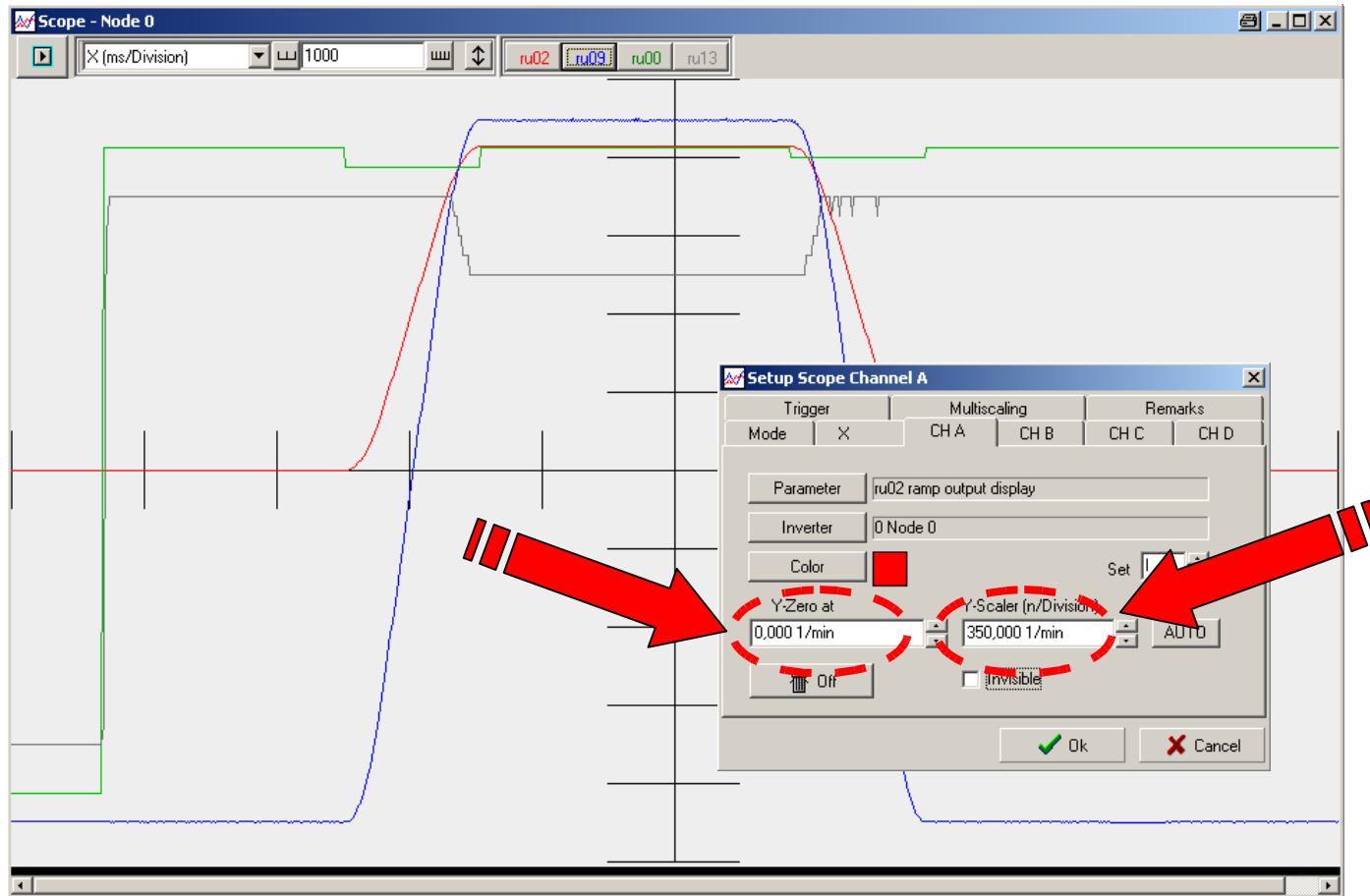




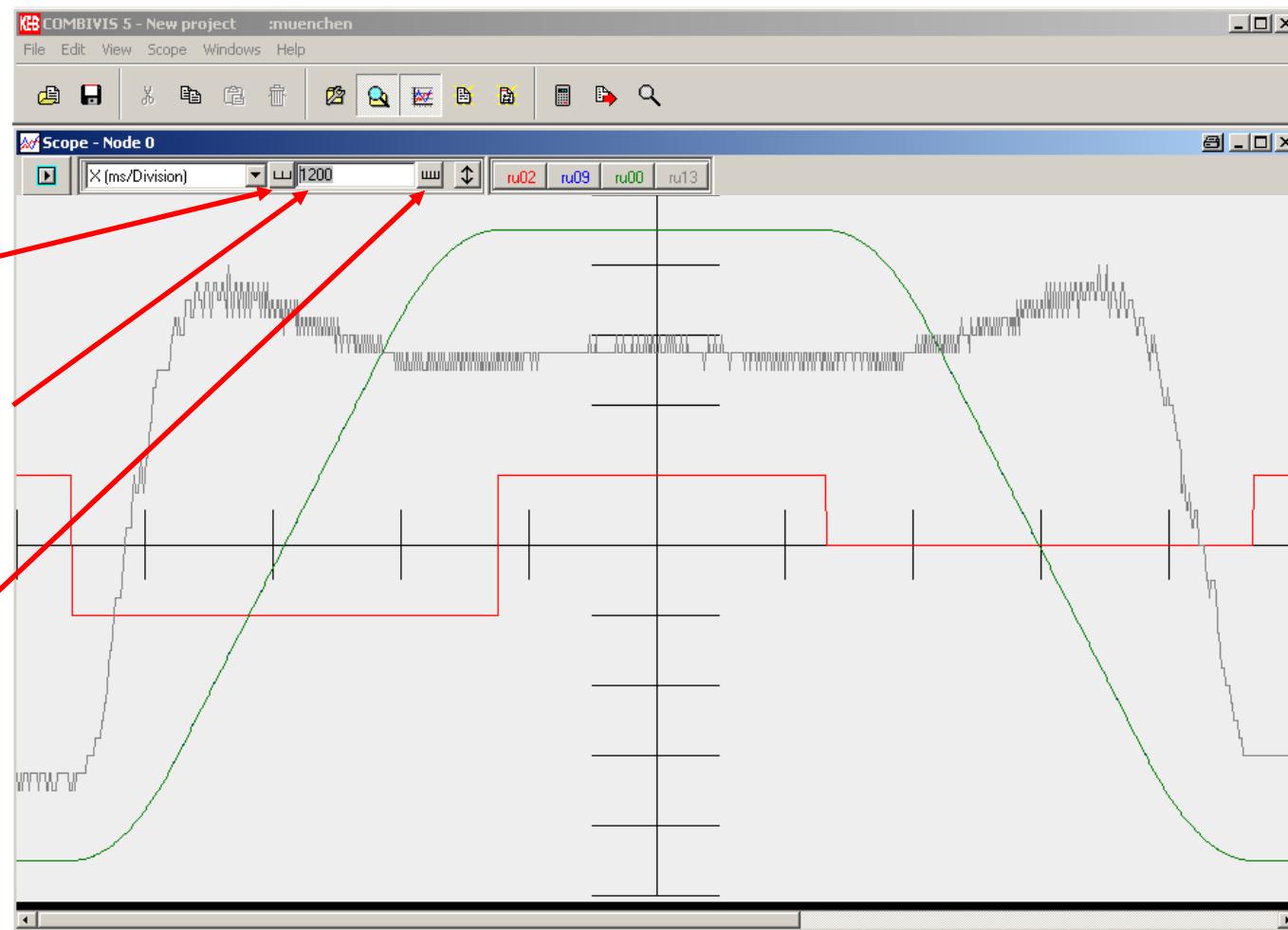
KEBCOMBIVIS



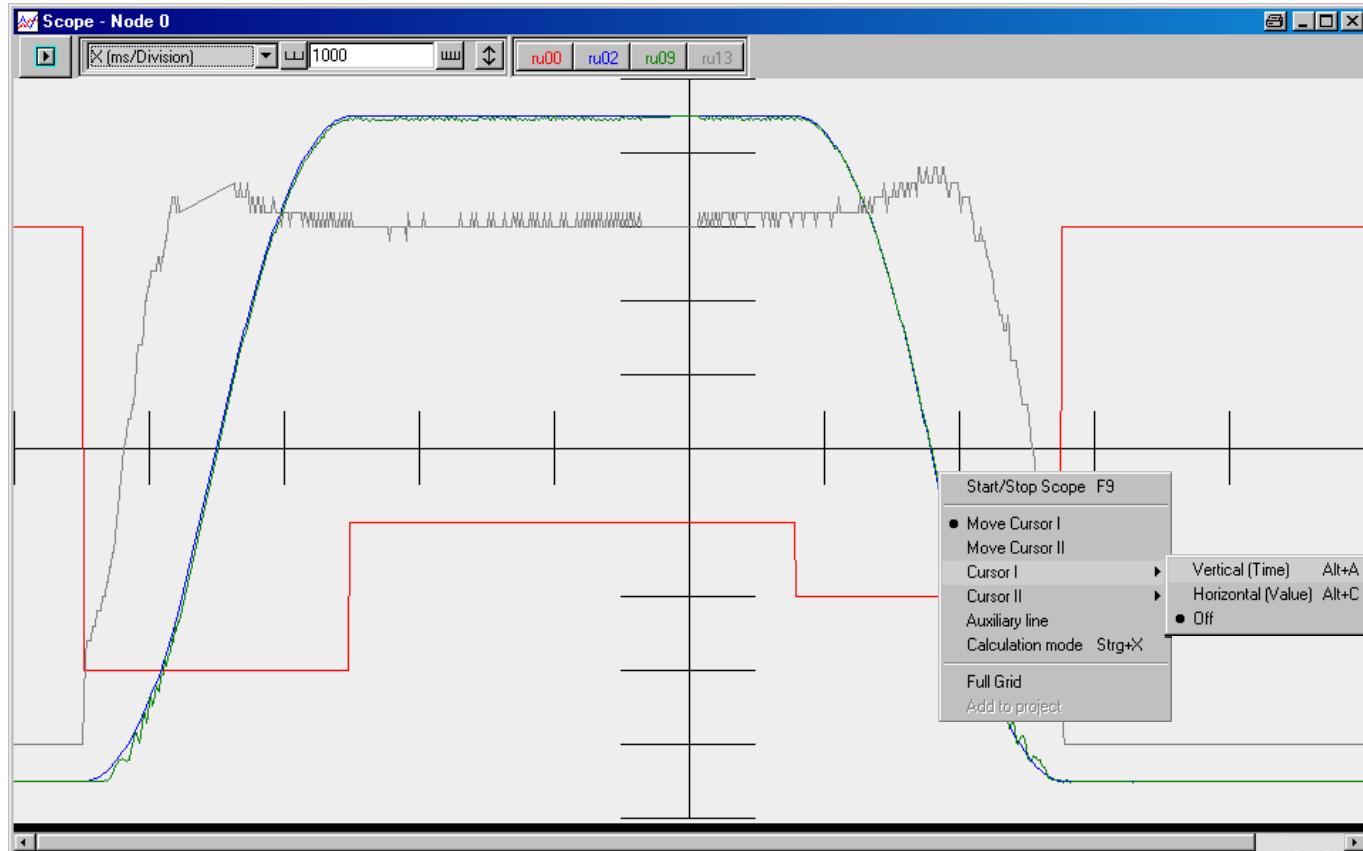
KEBCOMBIVIS

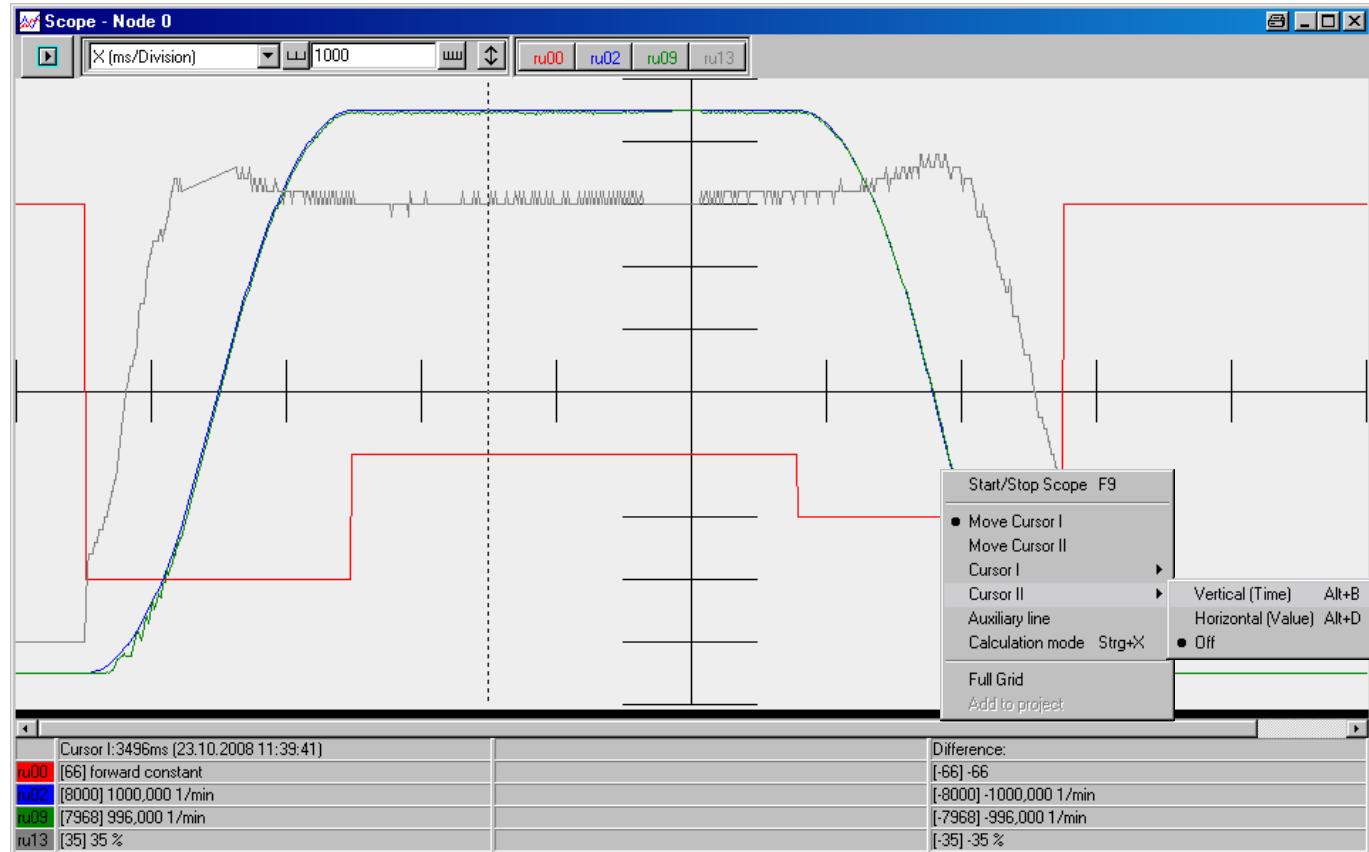


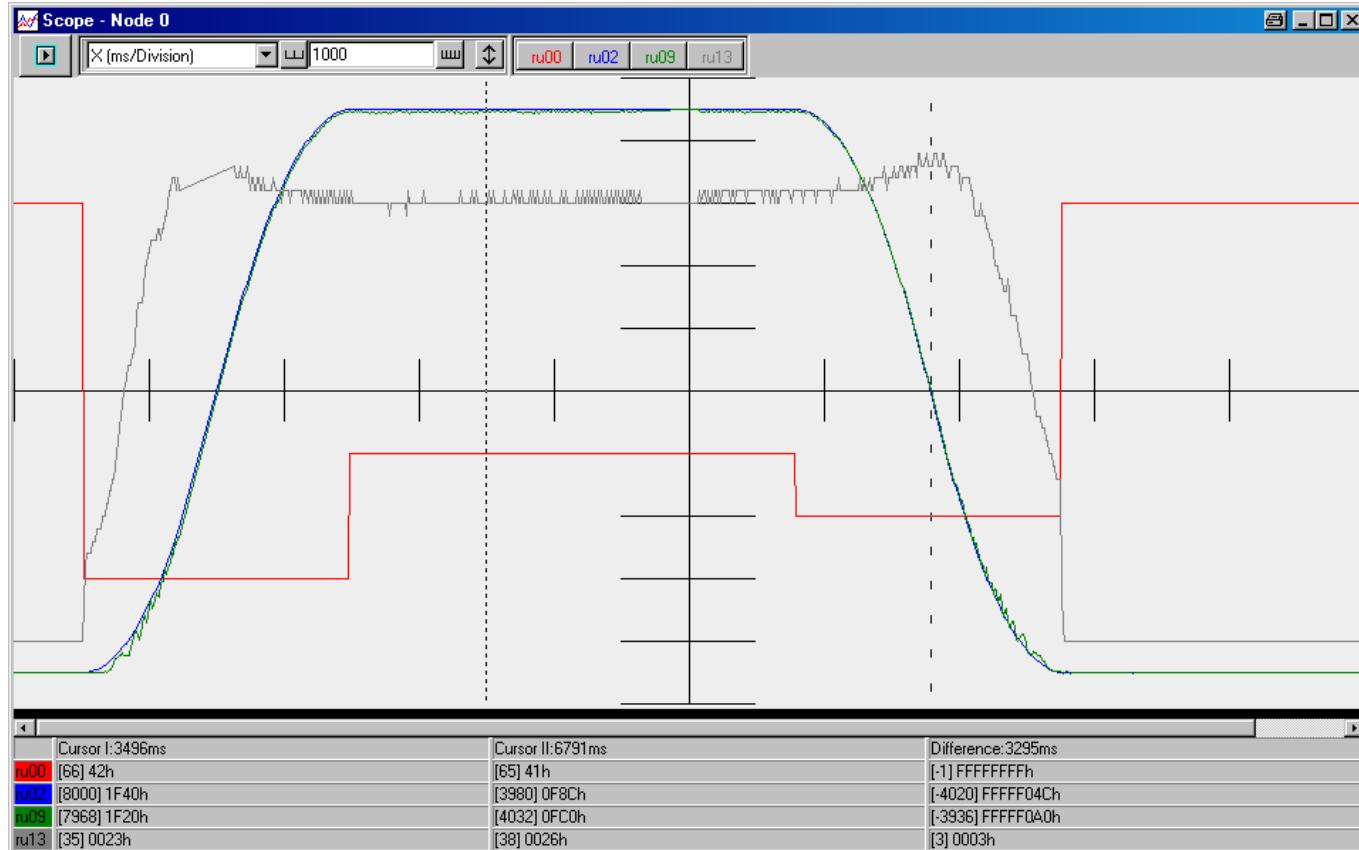




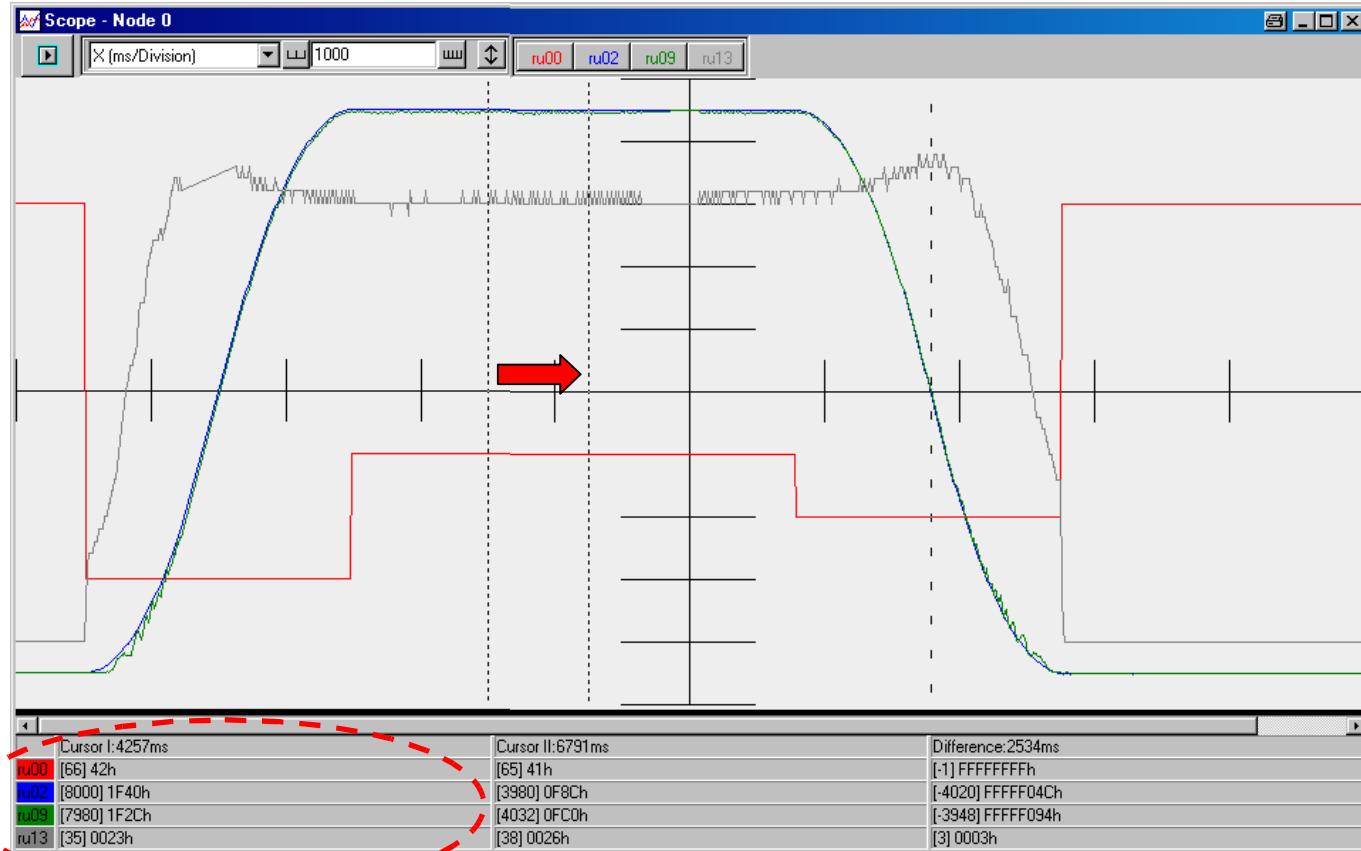


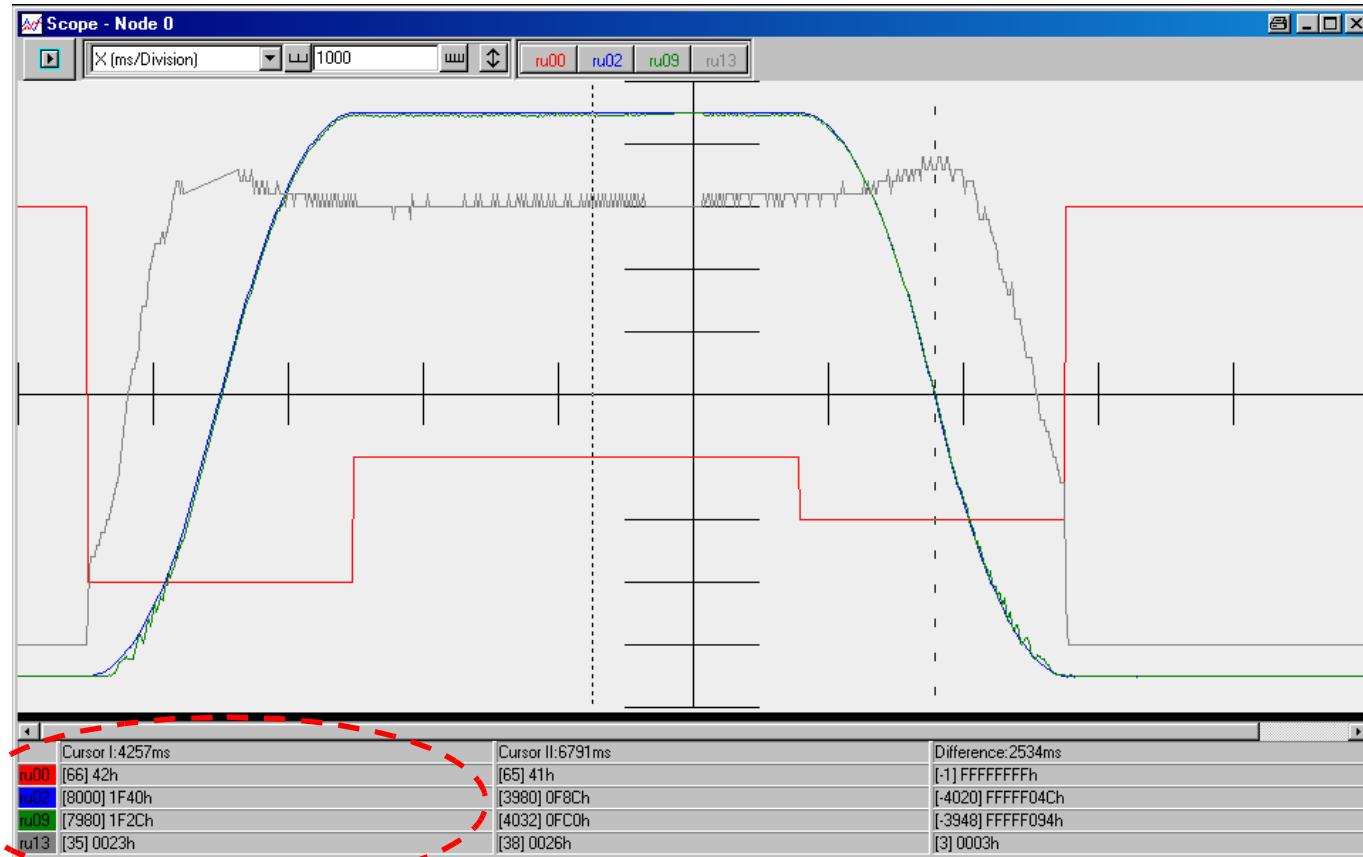






KEB Combivis

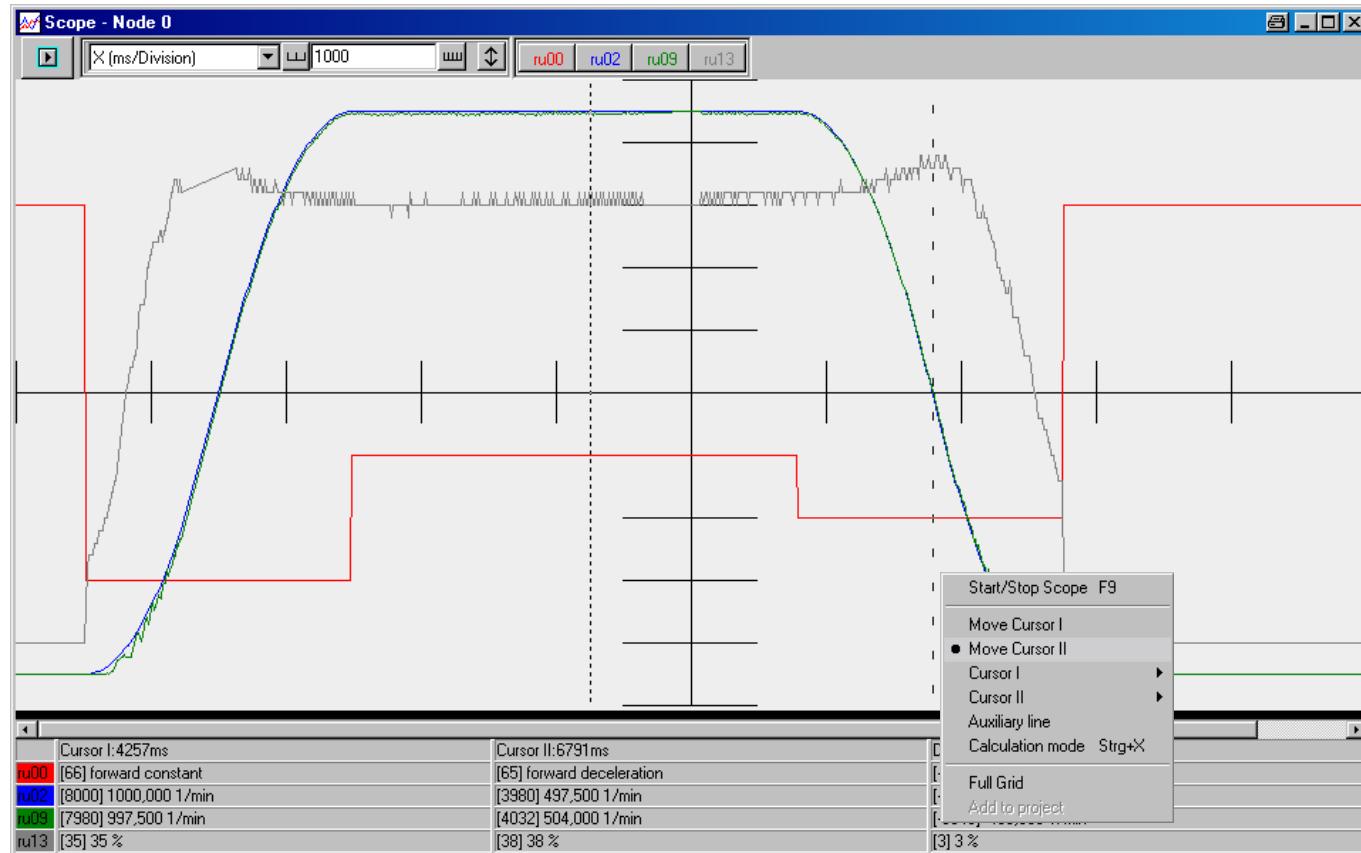






KEB Combivis





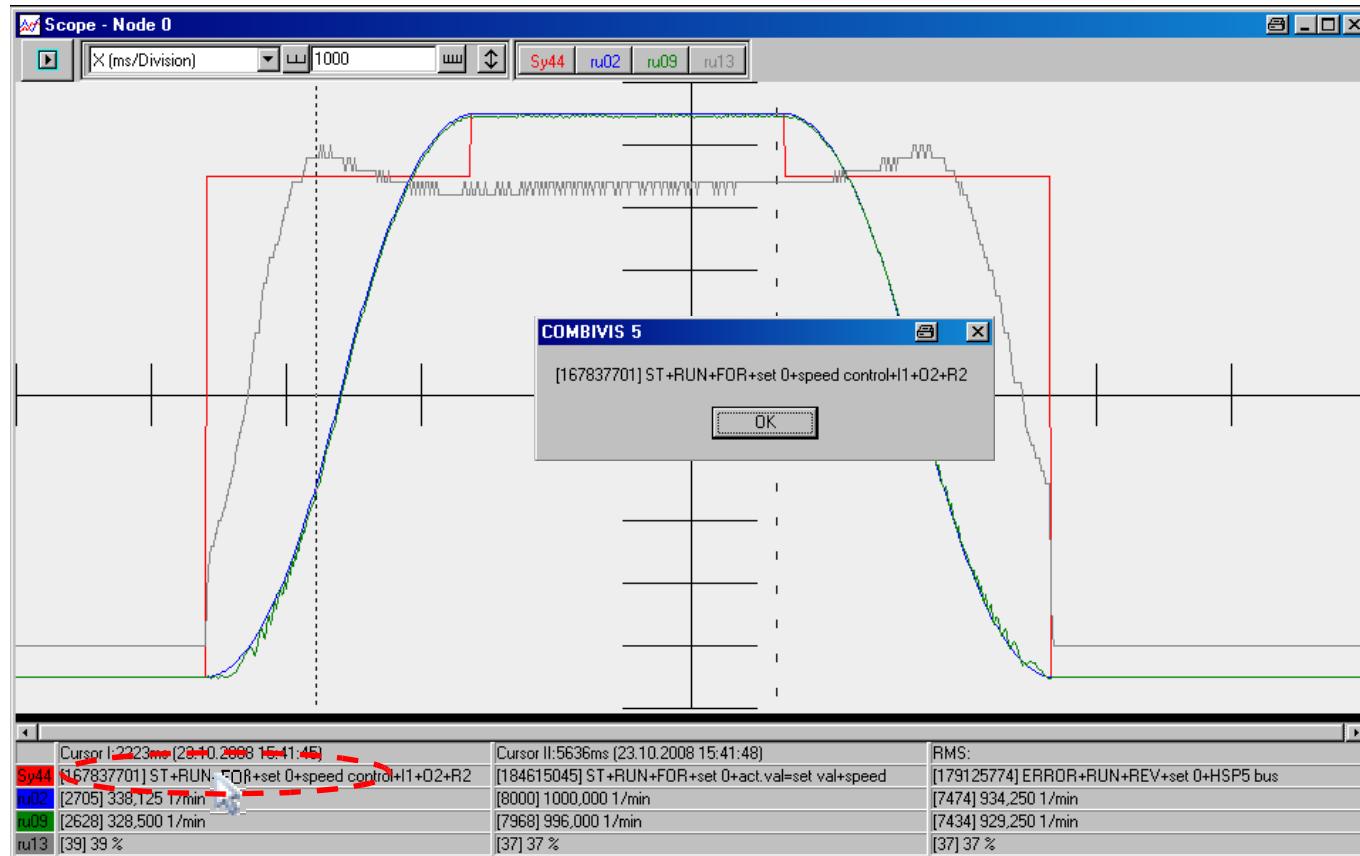




KEB Combivis



2 - 1.



KEB Combivis

(Online)

KEB COMBIVIS 5 - New project :muenchen

File Edit View Scope Windows Help

Scope - Node 0

X (ms/Division) 750 ru00 ru02 ru07 ru13

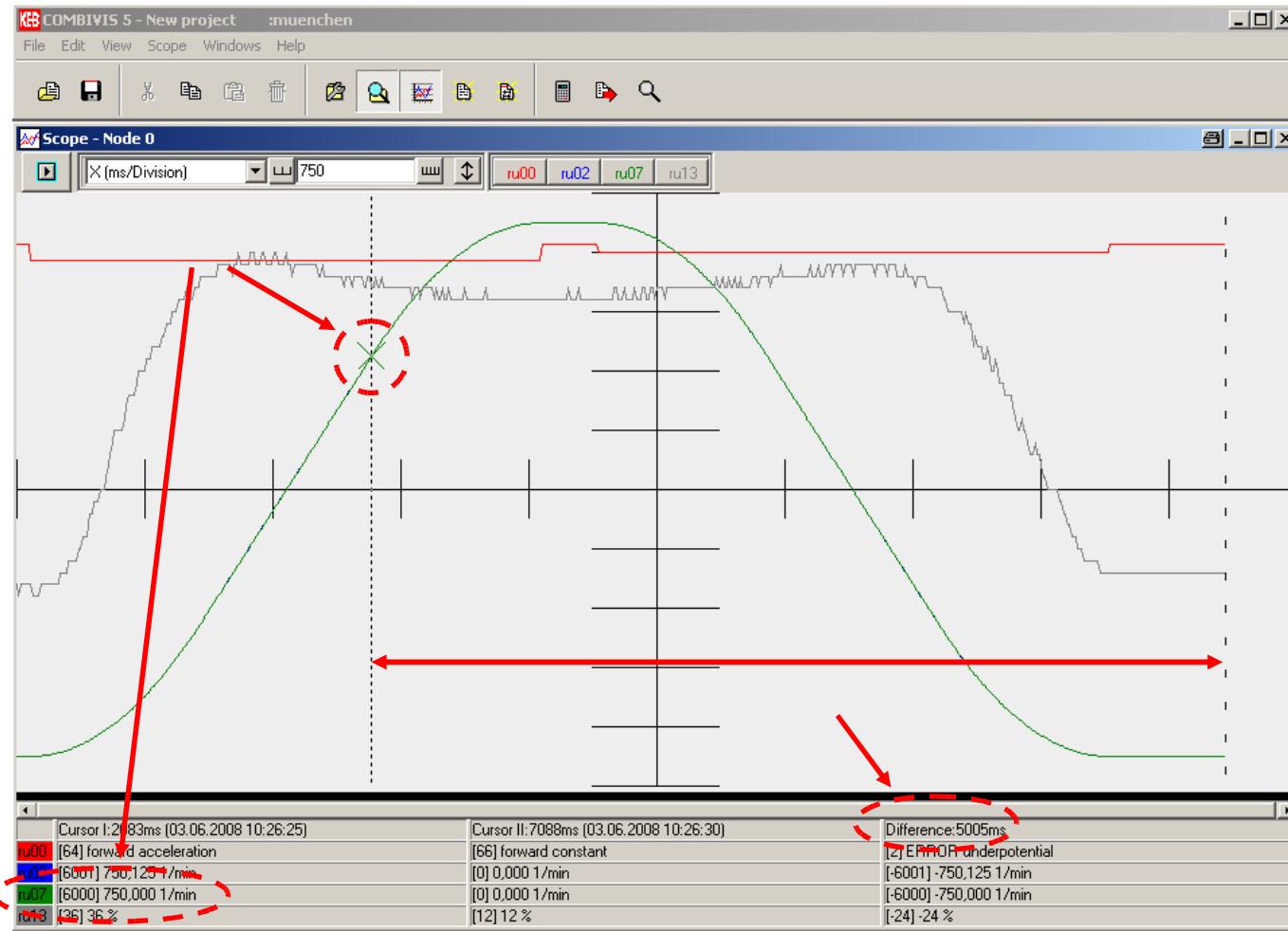
Trigger setup

Mode	X	CH A	CH B	CH C	CH D
Trigger	Multiscale	Remarks			
Channel for trigger	<input type="radio"/> Off <input checked="" type="radio"/> CH A <input type="radio"/> CH B <input checked="" type="radio"/> CH C <input type="radio"/> CH D				
Trigger level scope channel C	750,000 1/min	Value			
Slope	<input type="radio"/> - <input checked="" type="radio"/> + <input type="radio"/> ± <input type="radio"/> =				
Delay	5000 ms				
<input checked="" type="checkbox"/> Ok <input type="checkbox"/> Cancel					

Cursor I: 585ms (19.05.2008 10:49:20) Cursor II: 2016ms (19.05.2008 10:49:21) Differenz: 1431ms

ru00 [0] keine Reglerfreigabe	ru02 [0] 0,000 1/min	ru07 [0] 0,000 1/min	ru13 [0] 0 %
ru00 [0] keine Reglerfreigabe	ru02 [0] 0,000 1/min	ru07 [0] 0,000 1/min	ru13 [0] 0 %
ru00 [0] keine Reglerfreigabe	ru02 [0] 0,000 1/min	ru07 [0] 0,000 1/min	ru13 [0] 0 %

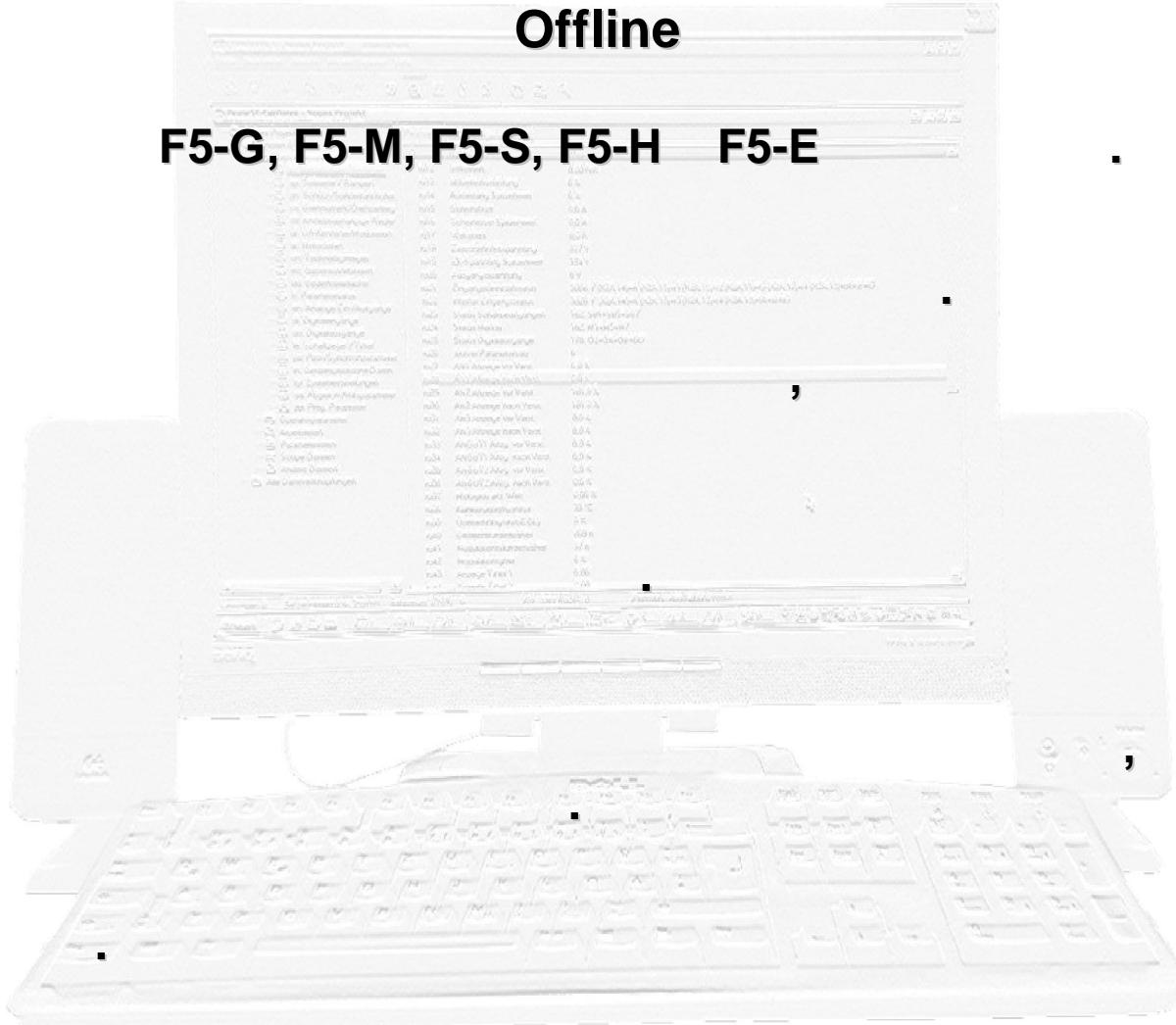
(Online)



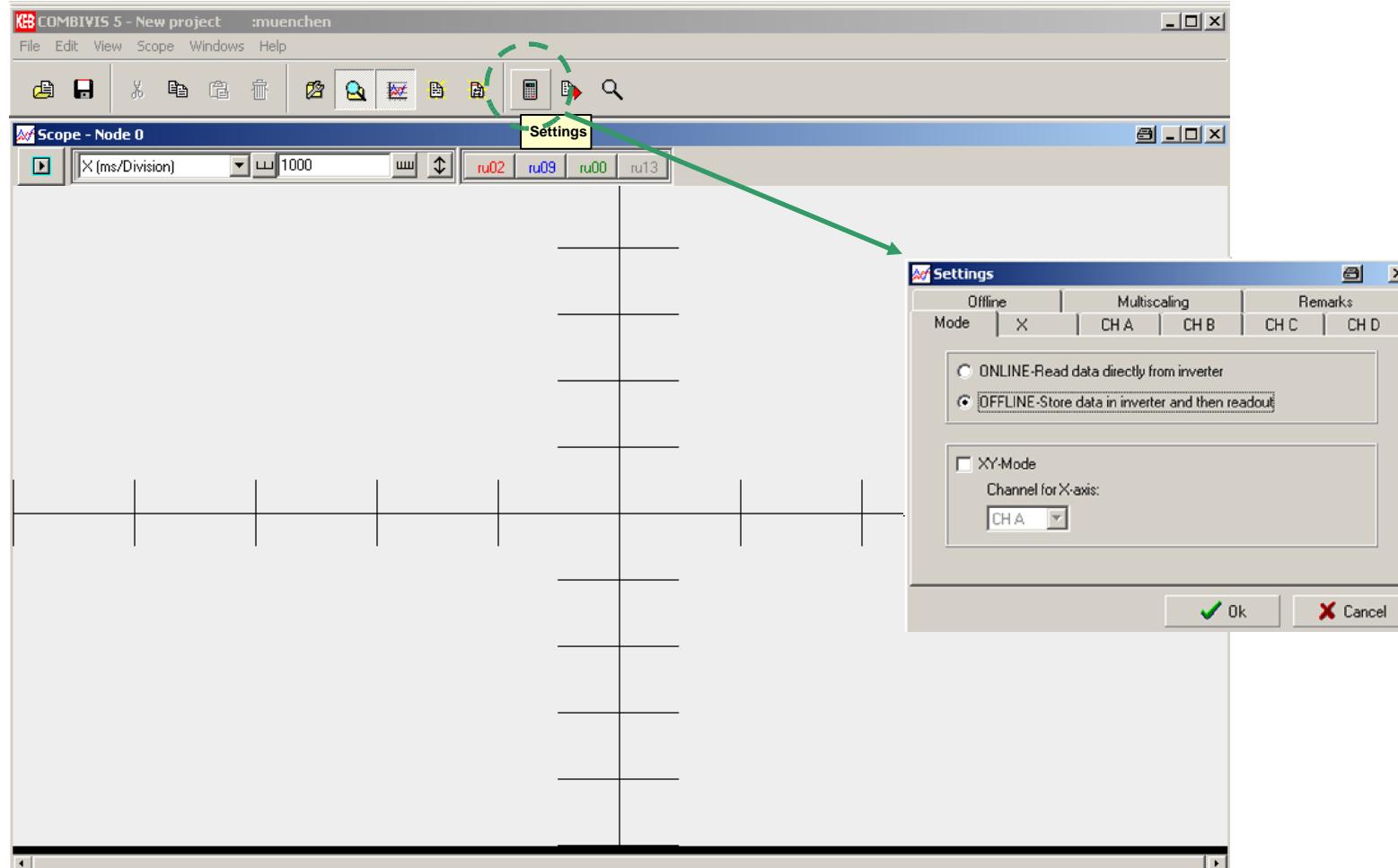


Offline

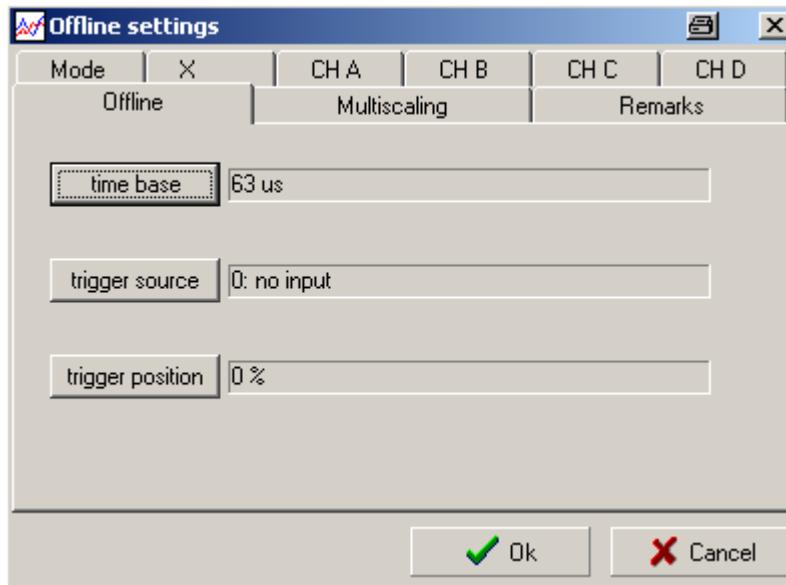
F5-G, F5-M, F5-S, F5-H F5-E



Offline

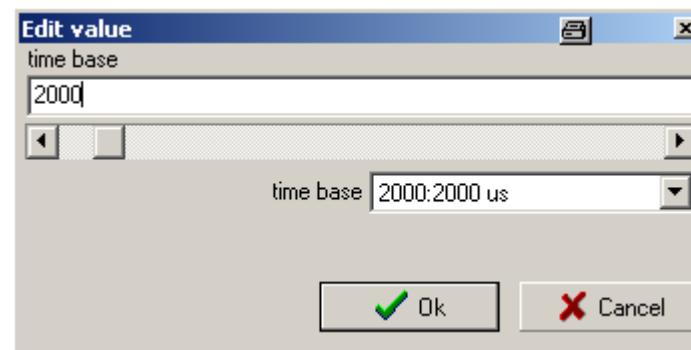


Offline

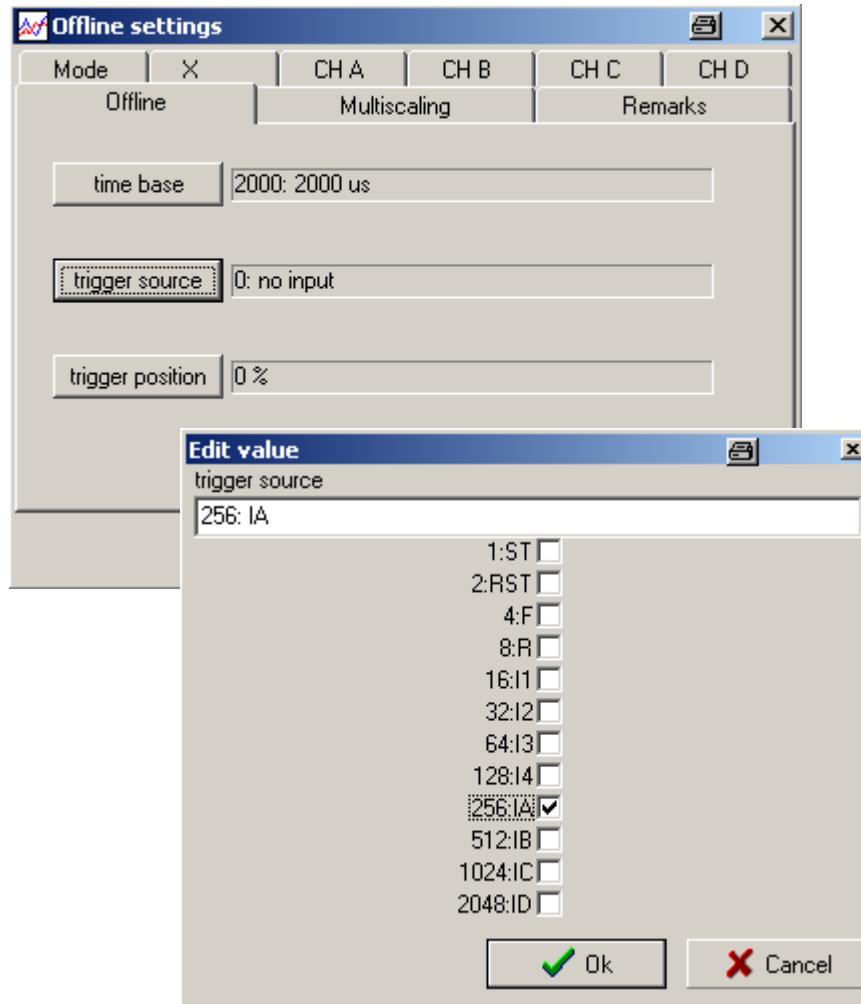


- **Online.**

- **63µs
32000µs**



Offline



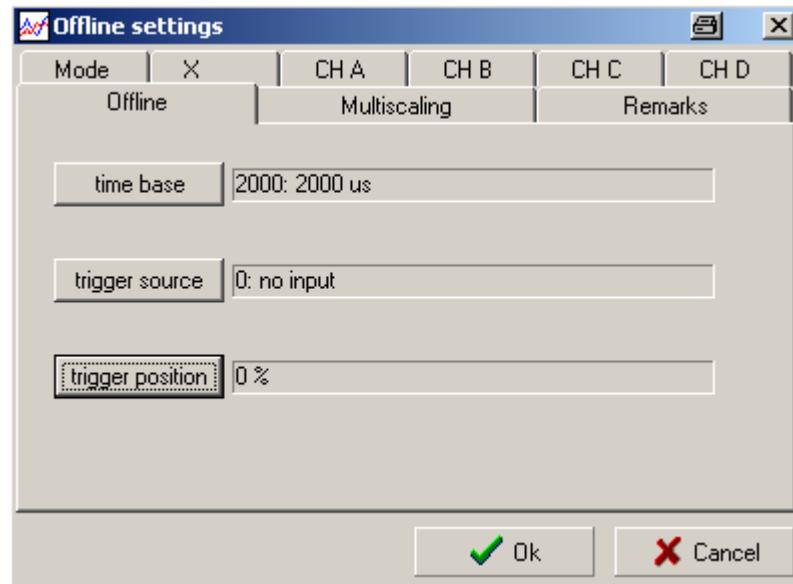
IA

...IB

OA

...OB.

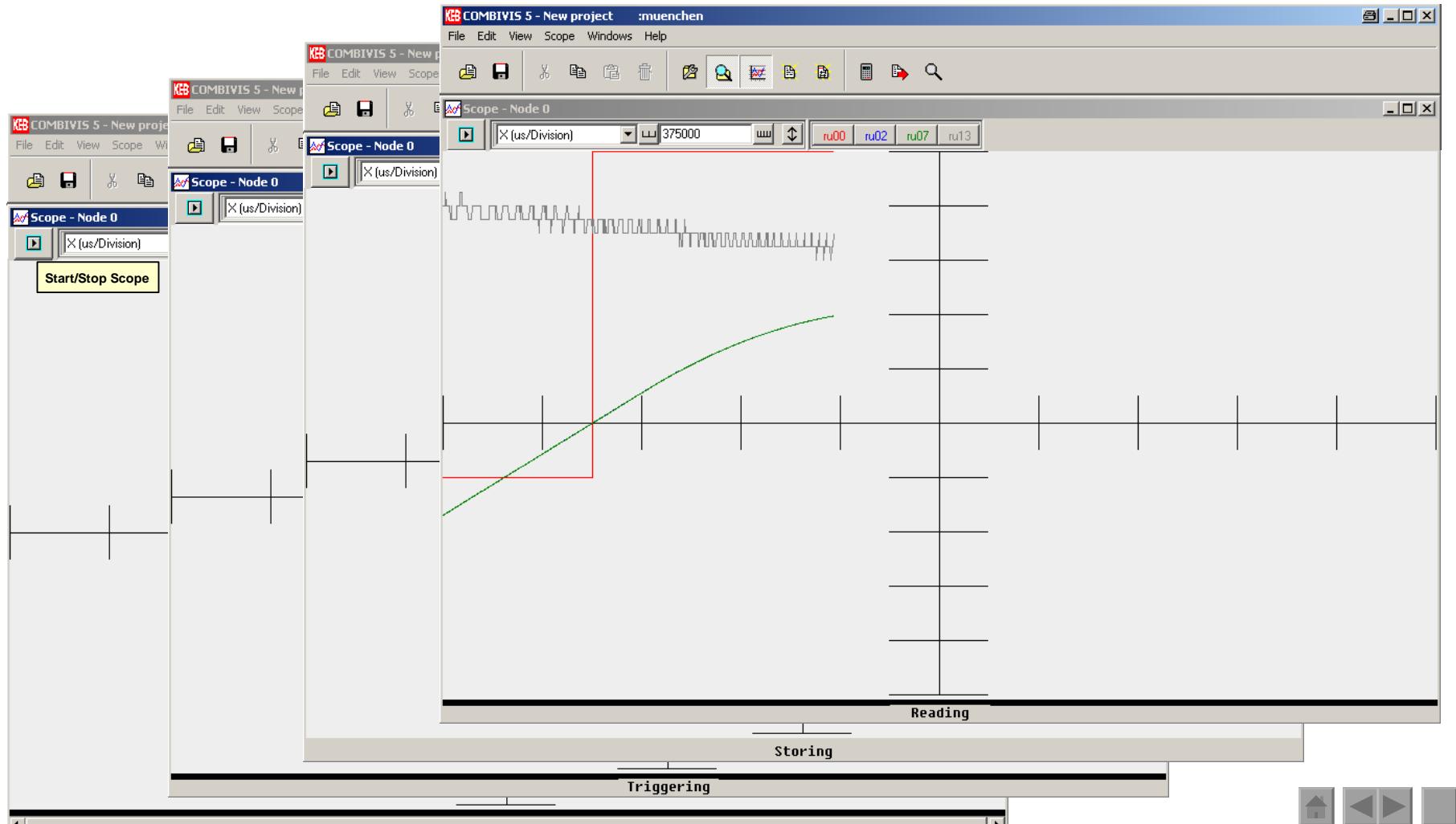
Offline

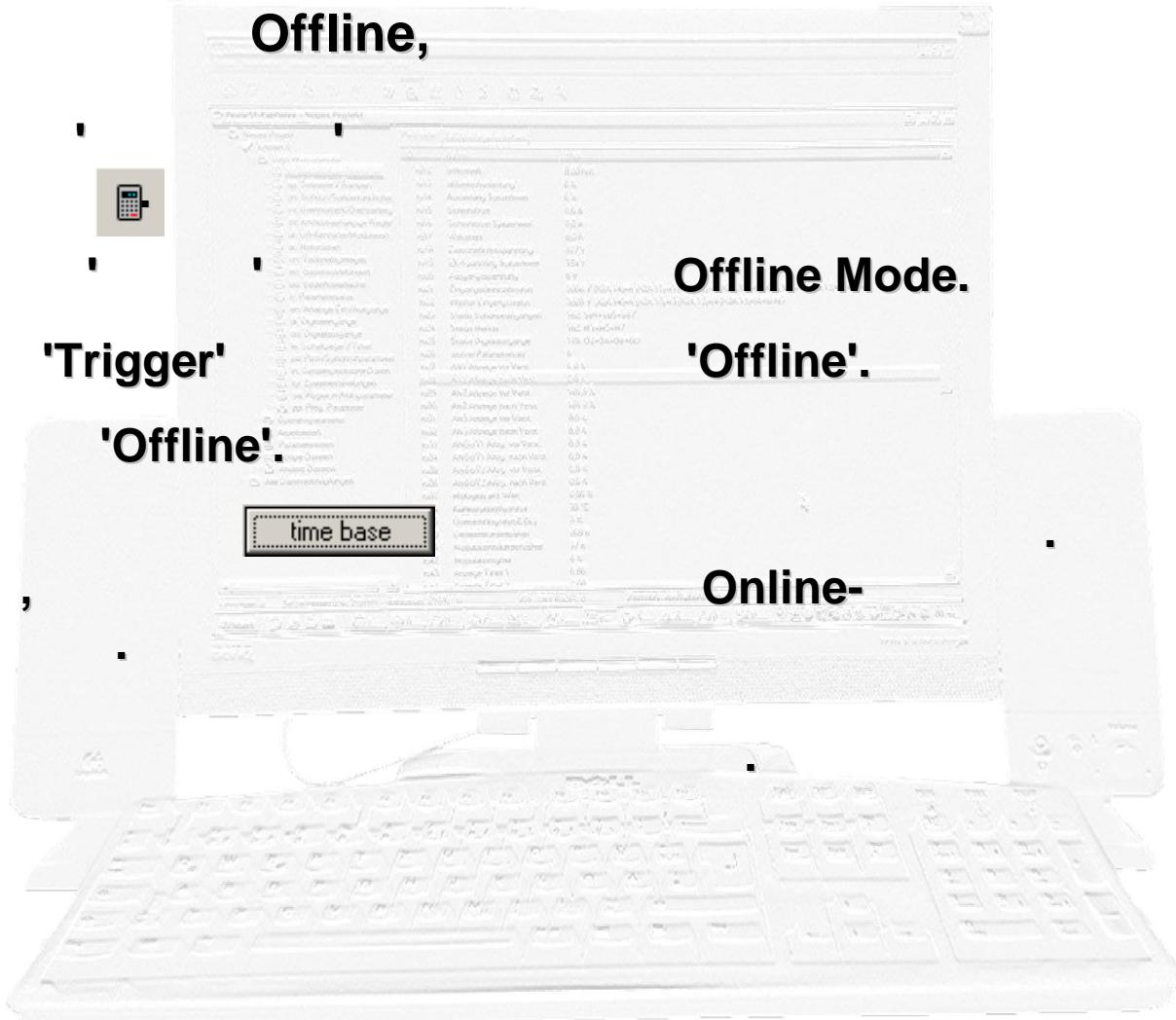


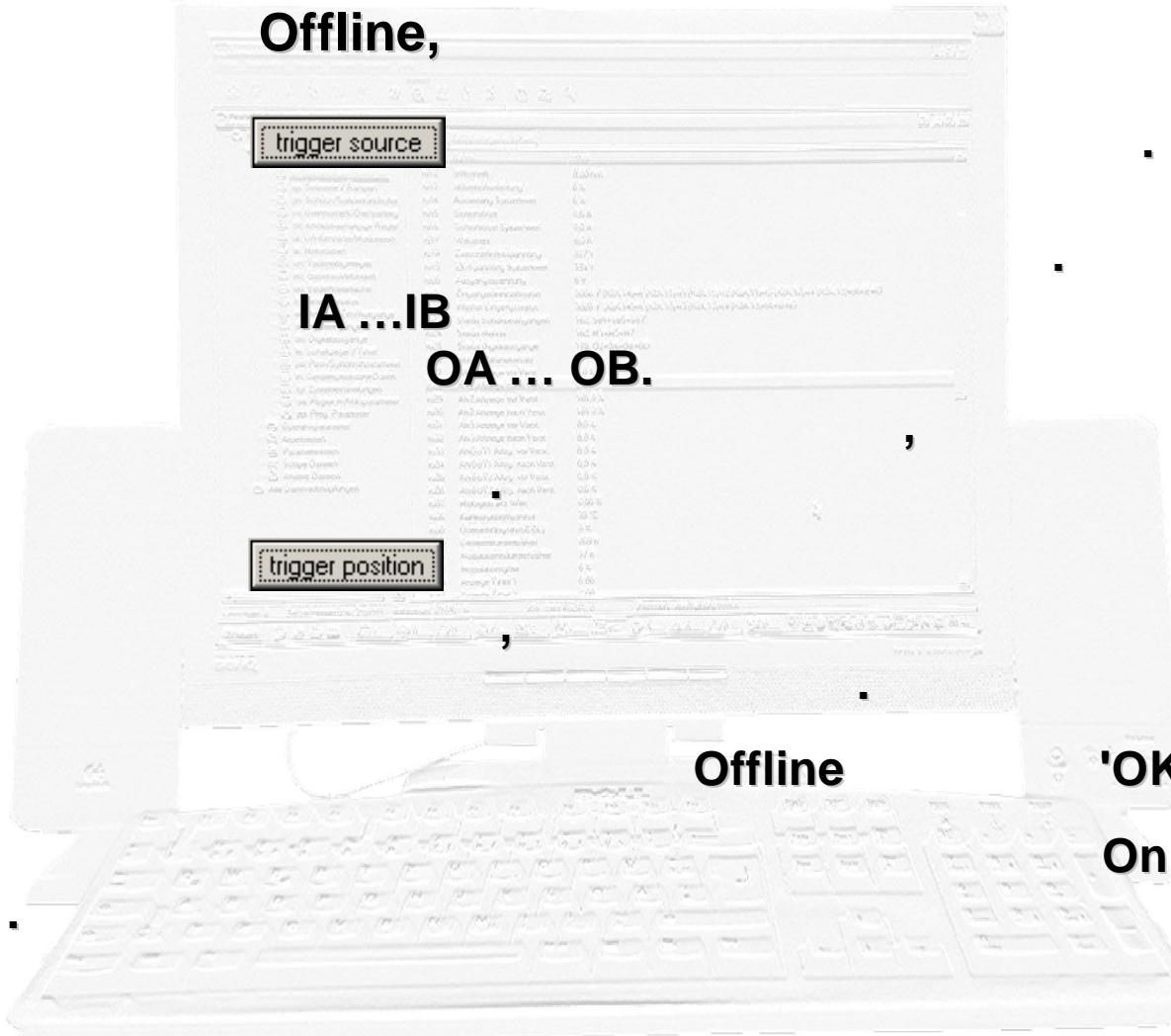
- ,
- : 30%
30 %



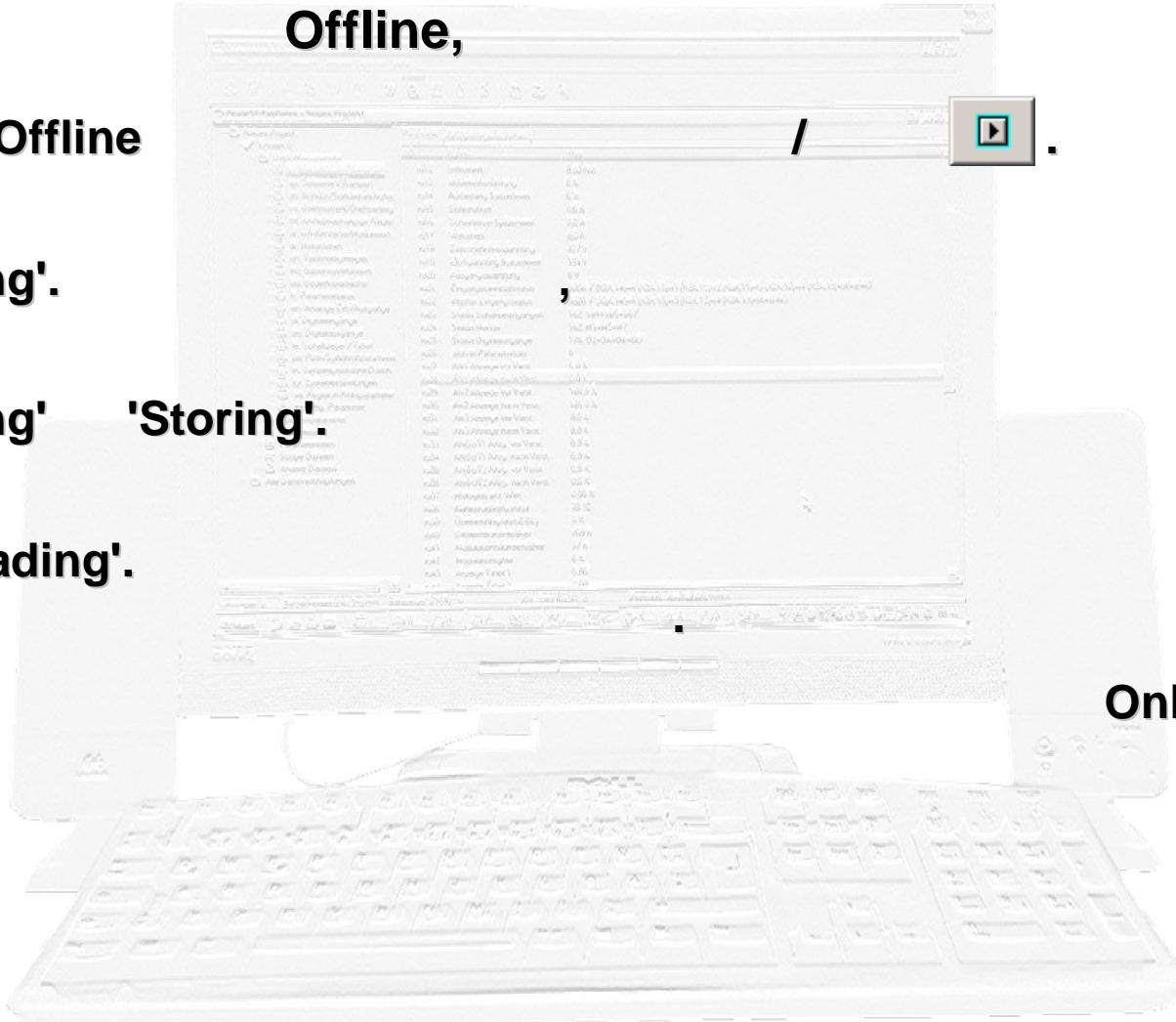
Offline







- **Offline**
-
- **'Triggering'.**
-
- **'Triggering'** **'Storing'**.
-
- **'Reading'**.
-



'Storing,

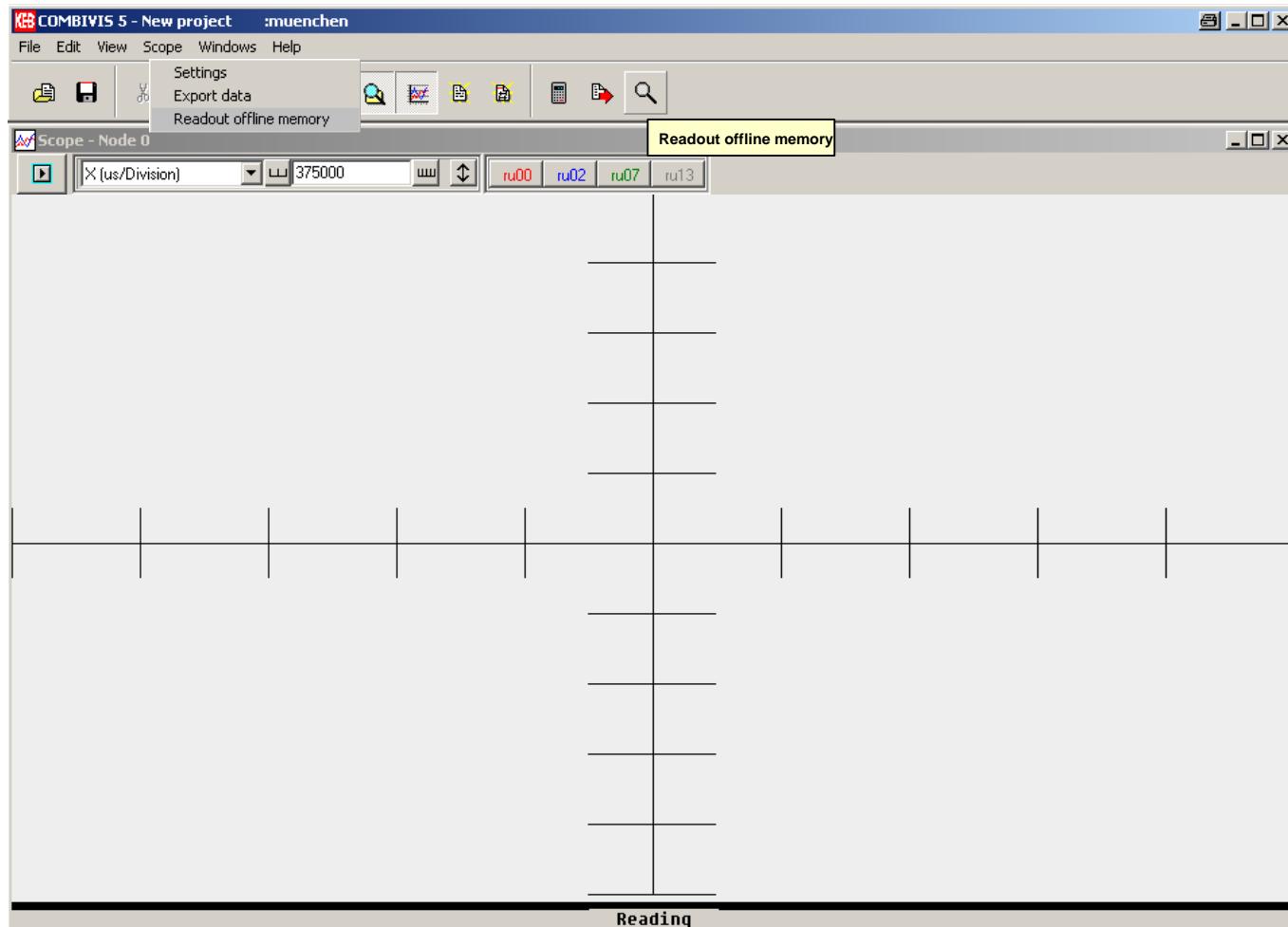
Online-

Offline, :

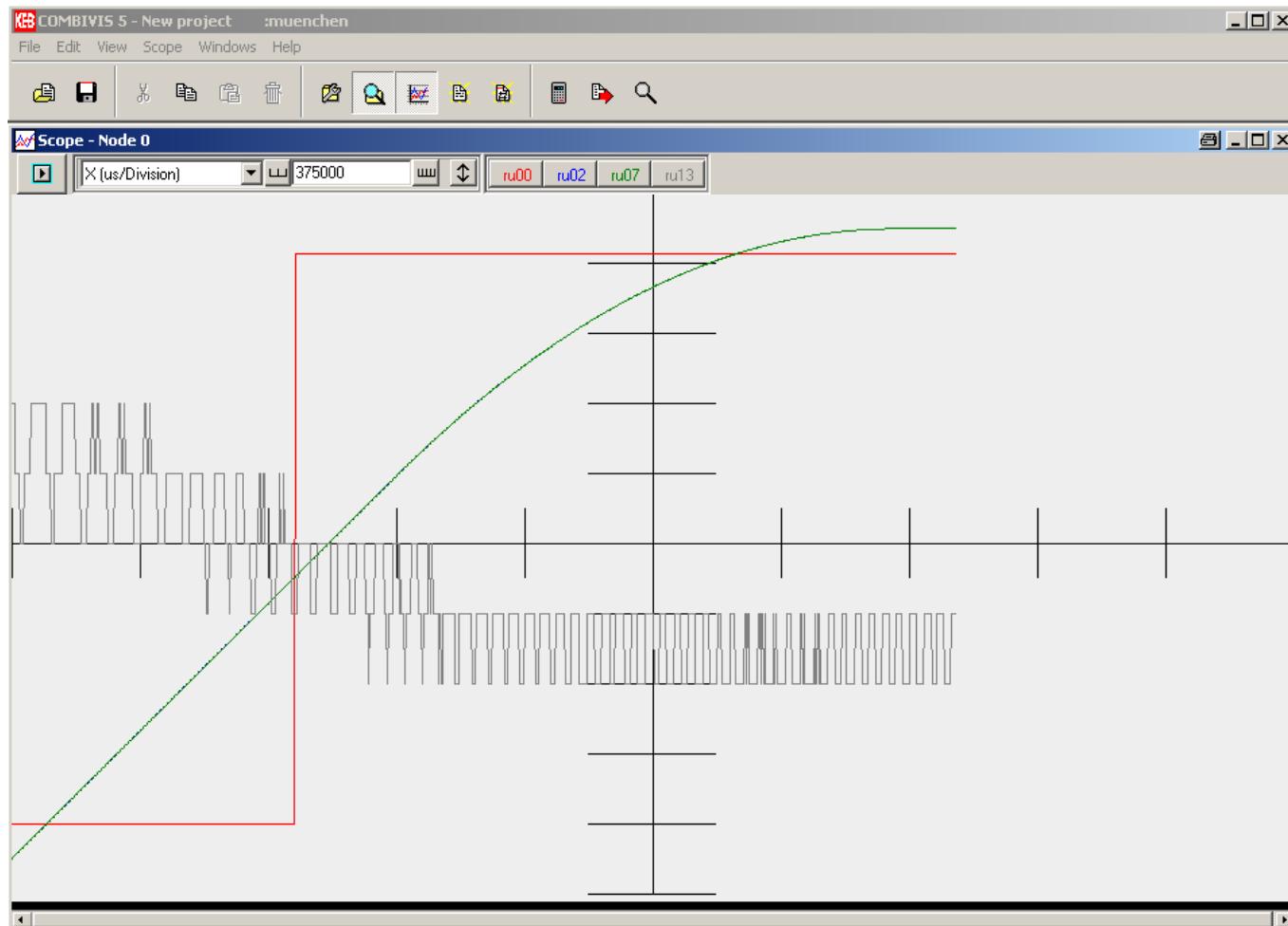
F5.A V4.2	3600	16-bit		
	1800	32-bit		
(,	,	-/)
4	16-bit	1ms	0,44s.	
,				

F5 Multi, ,

Offline,



Offline,



Offline,

Offline-

PC

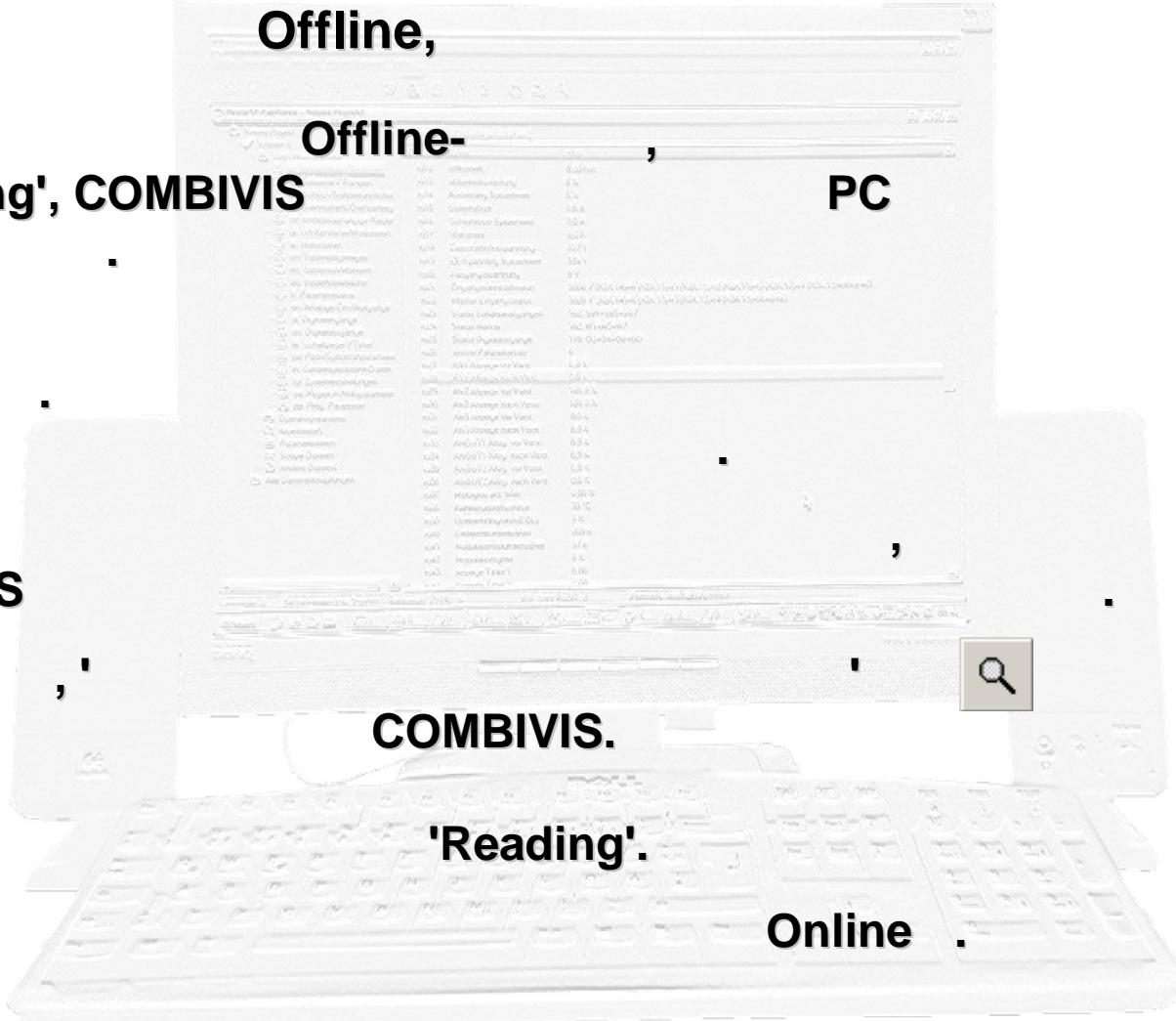
'Triggering', COMBIVIS

COMBIVIS

COMBIVIS.

'Reading'.

Online



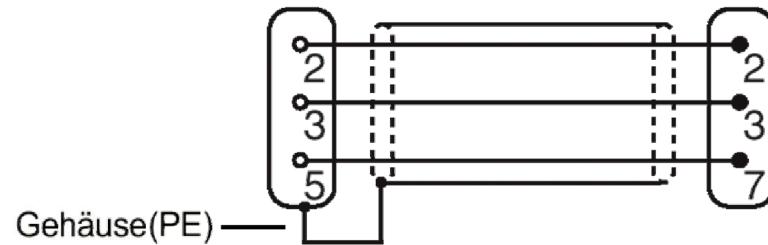
Accessories

RS-232

, PC/ Operator
: 00.58.025-001D

9pol. SUB-D Kupplung

9pol. SUB-D Stecker



**HSP-5
: 00.F5-0C0-0010**



**HSP-5-
SUB-D / RJ45
:00.F5.0C0-0020**



: HSP5

HSP5

RTS.

Windows 2000

XP

RTS

,

USB - COM.

'RTS'

HSP5

DIN66019II

1000,

: USB

HSP5 DIN66019II

**USB-
USB-**

**RTS
HSP5- RS485.**

: FT232BMKit (see <http://www.ftdichip.com>)



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