



Aalborg Universitet Laboratorie for akustik

Driftshåndbog for Lyddødt rum, lyttekabiner og lytterum



Hvidovre, den 11.09.02

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2. Indledning

Definition af entreprisen

Nærværende drifts- og vedligeholdelsesvejledning omfatter entreprise E11 i forbindelse med nyt akustiklaboratorium på Aalborg Universitet.

Entreprisen omfatter levering og montering af lyddødt rum, lytterum og 2 stk. lyttekabiner.



3. Telefon og adresseliste

Entreprenør :

IAC Nordic A/S (HM akustik) Jernholmen 14 2650 Hvidovre

Tlf.: + 45 36 77 88 00 Fax: + 45 36 77 50 88

Levering af alle konstruktioner :

IAC Ltd. IAC House, Morside Road Winchester Hampshire, SO23 7US England

Tlf.: + 44 (0) 1962 873000 Fax: + 44 (0) 1962 873111

Elektriske installationer :

Aalborg Lysteknik Svendsgade 6 9000 aalborg

Tlf.: +45 98 12 55 54 Fax: +45 98 35 13 77

Parketgulve og tæpper :

Aalborg Gulvservice ApS Gørtlervej 15 9000 aalborg

Tlf.:	+45 98 11 75 22
Fax:	+45 98 11 56 22

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4. Summarisk beskrivelse

Entreprisen omfatter levering og montering af 4 lokaler som skal anvendes som aksutiske laboratorier. Lokalerne opfylder beskrevne akustiske krav i henhold til diverse standarder.

De 4 lokaler er :

- Lytterum i alt 60 m² lokale 1.01
- Lyddøde rum lokale 1.04
- 2 lyttekabiner hver 9 m² lokale 1.07 og 1.08

Entreprisen omfatter opbygning af fritstående uafhængige rum inden i råhusets rum. Rummene består af gulve på svingningsdæmpere samt vægge og tage.

Overflader i det lyddøde rum består af skumgummikiler. Der er indbygget wiregulv med fangnet under.

Overflader i lytterum består af parketgulve, tæpper, akustiklofter samt stofbeklædning på vægge.

Indvendige døre og vinduer er indeholdt i entreprisen.

Lysinstallationer incl. 230 volt installation er indeholdt i entreprisen.

Forbindelser, incl. lyddæmpere, til bygningens ventilationsanlæg er indeholdt i entreprisen.



5. Beskrivelse af anvendte materialer

IAC Paneler

Gulv-, væg- og loftpaneler er fabrikat IAC type Moduline udført i gaævaniseret stål og Rockwool.

Panelerne kræver ingen vedligeholdelse.

Leverandør :

IAC Nordic A/S Jernholmen 44 2650 Hvidovre



IAC døre

Indvendige døre er IAC Acoustic doors udført i pulverlakeret stål.

Vedligeholdelse :

- (1) Hængsler kræver periodisk smøring and kontrol for slitage
- (2) Magnetisk tætningsliste kræver udelukkende renholdelse, evt. med sæbevand. Ved beskadigelse udskiftes magnetisk tætningsliste.
- (3) Tætningsliste kan demonteres enkelt ved at trække den ud af fastholdelsesprofilen.
- (4) Installation af ny tætningsliste. Fastgør først i toppen ved at trykke tætningslisten ind i fastholdelsesprofilen og tryk den nye liste fast med et skruetrækkerblad eller lignende.

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IAC Vinduer

Indvendige vinduer er IAC Acoustic windows udført i pulverlakeret stål .

Vedligeholdelse :

- (5) Hængsler kræver periodisk smøring and kontrol for slitage
- (6) Magnetisk tætningsliste kræver udelukkende renholdelse, evt. med sæbevand. Ved beskadigelse udskiftes magnetisk tætningsliste.
- (7) Tætningsliste kan demonteres enkelt ved at trække den ud af fastholdelsesprofilen.
- (8) Installation af ny tætningsliste. Fastgør først i toppen ved at trykke tætningslisten ind i fastholdelsesprofilen og tryk den nye liste fast med et skruetrækkerblad eller lignende.

Leverandør :

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Vægbeklædning af stof

Vægge i lytterum og lyttekabiner er beklædt med stof.

Regelmæssig rengøring

Let støvsugning af stofoverflader et par gange om måneden anbefales og vil forlænge stoffets levetid væsentligt. Ved anvendelse af rengøringsmidler bør der kun anvendes anderkendte mærkevare til polstrede varer. Leverandørens anvisninger skal følges.

Brug aldrig rengøringsmidler som er beregnet til hårde overflader. Før et rengøringsmiddel tages i brug, bør der udføres en prøve på et stykke løst stof eller lign.

Pletter bør fjernes hurtigst muligt, helst inden de er tørret ind.

Leverandør :

IAC Nordic A/S Jernholmen 44 2650 Hvidovre

Tlf.: 36 77 88 00 Fax: 36 77 50 88

Eller direkte fra :

Interface Fabrics Hopton Mills Mirford West Yorkshire WF14 8HE England

Tlf.: + 44 1924 490591 Fax: + 44 1924 495605



Akustiklofter

I lyttekabiner og lytterum, er der anvendt følgende akustiklofter :

Parafon Fjord Classic i dimension 600x600x18 mm monteret i Movinord T24 synligt skinnesystem.

Rengøring : Børstning eller støvsugning med blød børste. Tåler aftørring med fugtig klud eller svamp.

Dansk importør af Parafon og Movinord :

IAC Nordic A/S Jernholmen 44 2650 Hvidovre

Tlf.: 36 77 88 00 Fax: 36 77 50 88

Produktion :

Parafon Akustik AB S – 541 86 Skövde Sverige

Tlf.: 0046 500 42 42 00 Fax: 0046 500 42 42 42



Lysarmaturer

Loftlys i lyddøde rum er almindelige porcelænsfatninger med 75 W glødepærer.

Gulvlys i lyddøde rum er Halogenspots GU 10 M/KIP med 35 W halogenpærer GU.

Loftbelysning i lytterum og lyttekabiner er Fagerhult Endigo Armaturer HF m/dæmp. 40 W 2G11 lysrør.

Vedligeholdelse : Udskiftning af pærer og lysstofrør efter behov.

Leverandør :

Fagerhult A/S Baltershøj 13 – 15 2635 Ishøj

Tlf.: 43 55 37 00 Fax: 43 55 37 30



IAC Kiler

Gulv, vægge og loft i det lyddøde rum er beklædt med lydabsorberende kiler af DX30 skumgummi.

Kilerne kræver ingen vedligeholdelse udover eventuel støvsugning med blød børste.

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Hejsesystem i lyddøde rum

Hejsesystem betjenes fra betjeningskontakter på væggen indenfor den yderste dør.

Systemet må maksimalt belastes med 25 kg. per wire.

Vedligeholdelse : Bevægelige dele smøres efter behov, dog min. en gang om året.

Sikkerhedscertificat vedlægges.

Funktionsbeskrivelse for frekvensomformer (vector 8200) for styring af actuator vedlægges.

Leverandør :

IAC Nordic A/S Jernholmen 44 2650 Hvidovre

Tlf.: 36 77 88 00 Fax: 36 77 50 88

Eller direkte fra :

Precision Actuation Systems Ltd. First Road Blantyre Industrial Estate Blantyre Glasgow G72 0BW Glasgow Great Britain

Tlf.: 0044 1698 829811 Fax: 0044 1698 829775



Precision Actuation Systems Limited

Registered Office: First Road Blantyre Industrial Estate Blantyre Glasgow G72 0BW Telephone: (01698) 829811 Facsimile: (01698) 829775 e-mail: sales@precisionactuation.co.uk

Unique Consignment Identifier: WAR 0558 #1

Destination:

HVIDOURE, DENMARK DK-2650

CONSIGNMENT SECURITY CERTIFICATE

I, the undersigned, on behalf of the named below company, certify that to the best of my knowledge:

The consignment to which this document refers has been prepared in accordance with the requirements of the UK National Aviation Security Programme governing known customer procedures and can be considered as 'known cargo'.

I understand that a false declaration may lead to legal action being taken.

Signed: W. Dalzel Name (Block Capitals): W. DAZZEL Position: DESPATCHER Company: Precision Actuation Systems Ltd. Date: 21/11/0 (





Registration No. SC 141819 VAT Registration No. GB 624 1202 91

EDK82ZAFS 00420090 04/01 Standard-I/O

These Instructions

- inform about the most important technical data, installation, handling and commissioning of the function module.
- · are only valid
 - for function modules with the nameplate data E82ZAFS
 - for function modules with the nameplate data E82ZAFS001 (coated)
 - together with the Operating Instructions for the corresponding controller.

Description

The function module E82ZAFS enables the control of Lenze controllers using analog and digital control signals.

Range of application

- The function module can be used together with controllers as of the nameplate labelling
- 8200 frequency inverters - E82xVxxxxBxxxXXX0x0x (8200 vector/8200 motec/Drive PLC)

Accessories

The delivery package includes a screw driver for the terminals of the function module.



The electrical connection and interfaces remain live for at least 3 minutes after mains separation.

Mechanical installation for 8200 vector



The pins of the FIF interface carry dangerous voltage!
This function module must only be mounted when the controller is

After the disconnection, wait for 3 minutes before you start working on the module.



Lenze

Lenze GmbH & Co KG, Postfach 10 13 52, D-31763 Hameln (+ 49) 5154 82-0, Fax Service: (+ 49) 5154 82-1112

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Switch position

Signal to X3/8	Switch position						
	1	2	3	4	5	1	
0 5 V	OFF	OFF	ON	OFF	OFF	0	
0 10 V (default setting)	OFF	OFF	ON	OFF	ON	0	
0 20 mA	OFF	OFF	ON	ON	OFF	0	
4 20 mA	OFF	OFF	ON	ON	OFF	1	
4 20 mA open circuit monitoring	OFF	OFF	ON	ON	OFF	3	
-10 V +10 V	ON	ON	OFF	OFF	OFF	2	



Always set DIP switches and C0034 for the same range, otherwise the controller will misinterprete the analog input signal at X3/8. If a setpoint potentiometer is supplied internally via X3/9, the DIP switch must be set to a voltage range 0 ... 5 V. Otherwise it is not possible to use the complete speed range.

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Terminal assignment



X3	Signal type	Function (bold = Lenze setting)	Level	Level		Technical data
8	Analog input	Act. or setpoint input (Use DIP switch and C0034 to change the range!)	0 +5 V 0 +10 V -10 V +10 V1) 0 +20 mA +4 +20 mA +4 +20 mA (open-circuit monitored)			Resolution: 10 bit Linearity error: $\pm 0.5 \%$ Temperature error: 0.3 % (0 + 60°C) Input resistance • Voltage signal: > 50 k Ω • Current signal: 250 Ω
62	Analog output	Output frequency	0 +10V			Resolution: 10 bit Linearity error: ±0.5 % Temperature error: 0.3 % (0 +60°C) Load capacity: max. 2 mA
28		Controller inhibit (CINH)	1 = STAR	Г		Input resistance
E1	1	Activation of JOG		E1	E2	3.3 kΩ
2)		frequencies	JOG1	1	0	-
F2	-	JOG1 = 20 Hz	JOG2	0	1	-
	Digital	JOG2 = 30 Hz	JOG3	1	1	-1 = HIGH
E3	Inputs	DC brake (DCB)	brake (DCB) 1 = DCB active			0 = LOW
F4	-	Reversal of	E4			(0 +3 V)
		direction	CW	0	1	(PLC level HTL)
		of rotation CW/CCW rotation	CCW	1		(1 20 10 101, 1112)
A1	Digital output	Ready for operation	0/+20 V a 0/+24 V a	t DC interr t DC exter	nal	Load capacity: 10 mA 50 mA
9	-	Internal, stabilized DC voltage source for setpoint potentiometer	+5.2 V (re	f.: X3/7)		Load capacity: max. 10 m
20	-	Internal DC voltage supply for control of digital inputs and output	+ 20 V (ref.: X3/7)			Max. load capacity $\sum 1 = 40 \text{ mA}$
59	-	DC supply for A1	+20 V (internal, bridge to X3/20)			
			+24 V (external)			
7	-	GND1, reference potential for analog signals	-			isolated to GND2
39	-	GND2, reference potential for digital signals	-			isolated to GND1

Terminal description

1) Offset (C0026) and gain (C0027) must be adjusted separately for every function module. The adjustment data must t entered again => when changing the function module

a) after having loaded the Lenze settings
 a) or frequency input 0 ... 10 kHz, configuration under C0425

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	• F - - - - - - -	iven under ¹ lease obser that the se module. and that C Example: S ⇒ C0034 The controller en Please obs sources ac If the drive X3/28, che	"Individua ve tpoint rai 0034 is a Setpoint s = 0, DIP or is only nable via serve, tha t like a s does no ck wheth	al settir nge is s adapted selectio switch ready f termina to the co series co t start a her the	to the n (0 1 = OF or open l). ontrolle onnecti lithougi control	ectly by setting: 5 V) via F, 2 = (ation if r can b on of sy h the co ler is in	y usir s of t DFF, 3 a HIO e inh witch ontro hibit	ng the DIP switch the DIP switch. antiometer at X3/7 3 = ON, 4 = OFF, GH signal is applie ibited through val les. ller has been ena ed though a differ	at the function 7, X3/8 and X3/9 5 = OFF ed to X3/28 rious sources. All bled through rent source.
St	ep	Lenze set	ting				Ind	ividual setting	Drive reaction
1.	Plug in the keypad								
2.	Switch on the mains voltage.	The contro The contro	The controller is ready for operation after approx. 1 second. The controller inhibit is active.				The green LED is blinking. Keypad: RDY IMP		
 Control digital inputs. 		E4	E3	E2	E1	•	 Adapt the digital input under C0007 or C0410 to your 		
		CW rotation	LOW	1.000	1.014	LOW	 applicatio The digita should be such that controller start oper after bein enabled v terminal. 	application. The digital input should be set such that the controller can	
		CCW rotation	HIGH	Low	Low	LOW		start operation after being enabled via terminal.	
4.	Enter the setpoint.	Apply a voltage of 0 + 10 V to X3/8. • D th p			Depending on the DIP switch position: - Apply voltage or current to X3/8. - Check C0034.				
5.	Enable the controller via terminal.	X3/28 = HIGH (+ 12 + 30 V)					The green LED is on. MP off. The drive should be running now.		

Commissioning

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E82ZBC 03408683 06/99

Communication module Keypad and accessories

These instructions

- include the most important technical data.
- describe the installation, the handling of the keypad and keypad accessories.
- is valid only
- for Keypad labelled E82ZBC or E82ZBB,
- for hand-held terminals labelled E82ZBH,
- for mounting kits (door) labelled E82ZBHT,
- for connection cables labelled E82ZWLxxx,
- together with the Operating Instructions of the corresponding controller.

Description

The keypad enables the communication with Lenze controllers via a keypad.

Scope of application

The keypad can be used with controllers as from the nameplate labelling:

- 8200 frequency inverters
- E82xxxxxxBxxxXXVx1x

Required accessories

Connection cable (for hand-held terminal and door installation only)

Function

- Parameterization
- · Control (e.g. inhibit and enable)
- · Display operating data
- Enter setpoints

· Transfer parameter sets to other controllers

General data and operating conditions of the keypad

Ir 'ation voltage to ground/PE	50 V AC	÷	
EJsure	IP55		
Ambient temperature	during operation: Transport: Storage:	-10 +60 °C -25 +70 °C -25 +60 °C	
Climatic conditions	Class 3K3 acc. to EN 50178 (without condensation, medium relative humidity 85 %)		
Dimensions (L x W x H)	75 mm x 62 mm x 23 mm		

i

The 8200 motec maintains its degree of protection even if the connectior cable is inserted and the sealing plug is removed. The keypad can be connected or disconnected and parameterized during

Installation

operation. The rear side of the keypad is bolted to the hand-held terminal (remove

rubber coating). Use the kit E82ZBHT (cut-out 45.3 x 45.3 mm) to mount the keypad e.g. tc a control cabinet panel.

8200 vector



With hand-held terminal

- 1. Plug keypad into the hand-held terminal and bolt (for E82ZBC only).
- 2. Connect hand-held terminal to the AIF interface using the connection cable.

Without hand-held terminal

1. Plug keypad to the AIF interface.

The keypad is ready when the mains voltage is applied.

8200 motec



- 1. Plug keypad into the hand-held terminal and bolt (for E82ZBC only).
- 2. Remove sealing plug at the heatsink of the motec.

3. Connect hand-held terminal to the AIF interface using the connection cable.

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The keypad is ready when the mains voltage is applied.

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MA8200KEY

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MA8200KEY

Display / Functions

_			A	Function keys					
B	~		B	Status displays	1				
D			C	Bargraph display	1				
E	C C C C		D	Function bar 1	1				
C	#8	18888	E	Function bar 2	1				
A	-4.		F	Parameter set to be changed	Modificat				
			G	Code number	possible,				
			H	Subcode number	display				
	L			Parameter value with unit	flashing				
A	Function	keys							
	RUN	Enable controller (X3/28 must be applied to HIGH level)							
	STOP	Inhibit controller							
	00	Change function bar $1 \leftrightarrow$ function bar 2							
	00	To the right/left in the active function bar							
	00	Incrase/decrease value. Scroll: Keep key pressed							
	ENTER	Save parameters if → flashin	ng. Confi	mation by STOr E in the display.					
В	Status displays								
	RDY	Ready							
	IMP	Pulse inhibit (power outputs	Pulse inhibit (power outputs inhibited)						
	Imax	Set current limit exceeded (C0022 (m	notor mode) or C0023 (generato	r mode))				
	Warn	Warning active							
	Trip	Fault active							
C	Bargraph	display							
\square		Value set under C0004 in % Display range: - 180 % +	. (Default 180 % (setting: unit load capacity COO each bar = 20 %)	56).				
D	Function	bar 1							
	Set	Setpoint input via OO (Not (display = "LOC")	possible	with active password protection	I				
	Disp	display function: ((active after every a	Display m and activ	nemory unit 1 of the user menu e parameter set	(C0517/1)				

Select codes (displayG)

Select subcodes (display H)

PROFIBUS-DP and LECOM-B.)

Change parameter of a (sub)code (display1)

High values (Display "HI")

Low values (Display "LO")

Display values with more than five digits

After every mains switching, you have access to the user menu with the ten mos important drive parameters to commission a standard application with linear V, characteristic. For the complete code list please refer to the operating instructions of th

The first code of the user menu (C0517/1) is displayed after mains connection or using Disp

C0050		Output	frequency		
-480.00 {	Hz}	480.00			
C0034		Setpoir	nt input standard I/O (X3/	8)	
-0-	0		20 mA		
-1-	4	20 mA			
-2-	-	10 V +10 V			
-3-	4	20 mA with protect	tion against open circuit (T	RIP Sd5, if I $< 4 \text{ m}$	nA)
C0034		Setpoir	t input application I/O		
C0034/1 (S C0034/2 (S	ubcoo	de 1 of C0034) : de 2 of C0034) :	X3/1U, X3/1 X3/2U, X3/2		
-0-	0	5 V / 0 10 V			
-1-	-	10 V +10 V			
-2-	0	20 mA			
-3-	4	20 mA			
-4-	4	20 mA with protect	tion against open circuit (T	RIP Sd5 when I $<$	4 mA)
C0007		Configu	ration digital inputs		
		E4	E3	E2	E1
-0-		CW/CCW	DCB	J0G2/3	J0G1/3
-1-		CW/CCW	PAR	J0G2/3	J0G1/3
-2-		CW/CCW	QSP	J0G2/3	J0G1/3
-3-		CW/CCW	PAR	DCB	J0G1/3
-4-		CW/CCW	QSP	PAR	J0G1/3
-5-		CW/CCW	DCB	TRIP-Set	J0G1/3
-6-		CW/CCW	PAR	TRIP-Set	J0G1/3
-7-		CW/CCW	PAR	DCB	TRIP-Set
-8-		CW/CCW	QSP	PAR	TRIP-Set
-9-		CW/CCW	QSP	TRIP Set	J0G1/3
-10-		CW/CCW	TRIP Set	UP	DOWN
-11-		CW/CCW	DCB	UP	DOWN
-12-		CW/CCW	PAR	UP	DOWN
-13-		CW/CCW	QSP	UP	DOWN
-14-		CCW/QSP	CW/QSP	DCB	J0G1/3
-15-		CCW/QSP	CW/QSP	PAR	J0G1/3
-16-		CCW/QSP	CW/QSP	J0G2/3	J0G1/3
-1751-	e	nhanced settings (see	operating instructions)		

 CW = clockwise rotation, CCW = counter-clockwise rotation, DCB = DC injection braking, PAR = change-over (PAR1 ⇔ PAR2) PAR1 = LOW; PAR2 = HIGH (The corresponding terminal must be assigned to the function "PAR" in PAR1 and in PAR2)

JOG1/3, JOG2/3 = selection of fixed setpoints (JOG1: JOG1/3 = HIGH, JOG2/3 = LOW, JOG2:

JOG1/3 = LOW, JOG2/3 = HIGH, JOG3: JOG1/3 = HIGH, JOG2/3 = HIGH)

· QSP = Quick stop, TRIP Set = external fault, UP/DOWN = motor pot functions

Lenze

Code

SubCod

Para

H/L

PS

Bus

Menu

E

H:

drive.

L:

Function bar 2

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Parameter set 1 ... Select parameter set 4 for change (Display e.g. PS 2 (E)). The parameter sets can only be activated using digital signals (configuration using C007 or C0410).) Select controller on the system bus (CAN) (remote parameterization)

(The selected controller (1 ... 63) can be parameterized from the momentary

necessary, change to ALL. (JSEr: Code list in the user menu (C0517). ALL: List of all codes. FunCl: Specific codes only for the function modules INTERBUS,

➡ = function active) Select menu. The user menu is active after every mains connection. If

MA8200KEY

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controller.

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MA8200KEY

User menu

C0010		minimum output frequency	Operation with Lenze geared		
0.00		480.00	motors, setting range 1 : 6		
C0011	{ 50.00 Hz }	maximum output frequency	→ C0010: 14.5 HZ		
7.50		480.00 Sat AN 45 F	→ C0011: 87.0 Hz		
C0012	{ 5.00 s }	Acceleration time main setpoint	Reference: Frequency change		
0.00		1300.00 Set for 0,55	0 Hz C0011		
C0013	{ 5.00 s }	Deceleration time main setpoint	Reference: Frequency change		
0.00		1300.00	C0011 0 Hz		
C0015 7.50	{ 50.00 Hz }	V/f rated frequency 960.00	Setting is valid for all permitted mains voltages		
C0016 0.00	{ depending on	U _{min} boost the controller} 40.0			
C0002 s	ee chapter 'Param	neter set transfer'			

Change entries in the user menu

Action		Key	Result	Note
1.	Change to the	0-0	0	Change to function bar 2
2.	menu "ALL"	00	Menu	
3.	1	00	ALL	Select menu "ALL" (list of all codes)
4.	1	0-0	0	Confirm selection, change to function bar 1
5.	Select user	0	Code	
6.	menu	0	0517	Code for user menu
7.	Select memory unit	00	SubCode 001	Code saved under C0517/1 is displayed (default setting: output frequency C0050)
8.	1	0	001 010	Select subcode
9.	Change entry	•	Para	
10.		00	XXXXX	Enter code number The sytem does not check whether the code number exists! "0" must be entered to delete the entry.
11.	1	ENTER	STOrE	Confirm entry and restart "loop" at step 7, to change other memory units

Edit parameters

[Change a The user Change to If you sho C0002 ar	and save menu is the me build make and start a	e parameters active after evenu <i>RLL</i> to cal te a mistake de again.	very mains switching. I all codes. uring parameterization, load the default setting under
Action		Key	Result	Note
1.	Plug in key- pad		Disp XX.XX Hz	The function (Dep) is active. The first code in the user menu is displayed (C0517/1, default setting: C0050 = output frequency).
2.	If necessary,	0-0	0	Change to function bar 2
3.	change to the	00	Menu	
4.	- IIICIIU ALL	00	ALL	Select menu "ALL" (list of all codes)
5.		0-0	0	Confirm selection and change to function bar 1
6.	Inhibit con- troller	STOP	RDY IMP	Necessary only, if you change C0002, C0148, C0174 and/or C0469
7.	Set parame-	00	Code	
8.	ters OO XXXX Select code		Select code	
9.	1	۰	SubCode 001	For codes without subcodes: automatic jump to Para
10.		00	XXX	Select subcode
11.		•	Para	
12.	-	00	XXXXX	Set parameters
13.	-	ENTER	STOrE	Confirm entry, if → is flashing
		•		Confirm entry, if → is not flashing; @ is inactive
	You can u activate a under CO The funct	paramet use the k a parame 410 or C tion Disp	er set (PS) eypad only to eter set (PS) for 0007)! displays the c	change over the parameter set, to modify parameters. To r operation, you must use digital signals (configuration urrently active PS.
Acti	on	Key	Result	Note
1.	Select	0-0	0	Change to function bar 2
2.	function	00	PS	
3.	Select PS	00	1 4	Select PS to be changed
4.		0-0	0	Confirm selection and change to function bar 1
5.	Set parameters			Proceed as described in the table above

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Parameter set transfer

Code C0002	PS transfer	
-0-	Function performed	
PS of the con	troller	
-14-	Default setting⇔ PAR1 4	Overwrite selected PS of the controller with the default setting
-10-	Keypad ⇔ PAR1 / 2 / 3 / 4	Overwrite all PS of the controller with the keypad data
-1114-	Keypad ⇔ PAR1 4	Overwrite individual PS of the controller with the keypad data
-20-	PAR1 / 2 / 3 / 4 ⇔ Keypad	Copy all PS of the controller to the keypad
PS of a functi	on module on FIF(not for standard I/O	or syste mbus (CAN))
-3134-	Default setting⇔ FPAR1 4	Overwrite selected PS of the function with the default setting
-40-	Keypad ⇔ FPAR1 / 2 / 3 / 4	Overwrite all PS of the function module with the keypad data
-4144-	Keypad ⇔ FPAR1 4	Overwrite individual PS of the function module with the keypad data
-50-	FPAR1 / 2 / 3 / 4 ⇔ Keypad	Copy all PS of the function module to the keypad
PS controller Operation with	+ function module on FIF (not for stan application I/O: Always transfer PS of th	dard I/O or systembus (CAN)) ne controller and application I/O jointly!
-6164-	Default setting⇔ PAR1 4 + FPAR1 4	Overwrite individual PS with the default setting
-70	Keypad ⇔ PAR1 / 2 / 3 / 4 + FPAR1 / 2 / 3 / 4	Overwrite all PS with the keypad data
-7174-	Keypad ⇔ PAR14 + FPAR1 4	Overwrite individual PS with the keypad data
·80-	PAR1 / 2 / 3 / 4 + FPAR1 / 2 / 3 / 4 ⇔ Keypad	Copy all PS to the keypad
Please carry o	out the following steps prior to every	PS modification:
Plug in keypad	and inhibit controller with sop or via ter	minal (X3/28 = LOW)
oad default s	etting	
Set selec	ction code under C0002, confirm with @	ITER
ransfer PS fro	om controller to keypad	
. Set 20 o	r 50 or 80 under C0002, confirm with	TER
. If SAUE	is not longer illuminated, all PS are tran	sferred to the keypad.
ransferPS fro	m keypad to controller	
Cataolos	tion and a under 00000 and the title	
. Set selec	cuon code under CUUU2, contirm with 🕊	ITEH

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6. Tegninger

Oversigtstegning nr. AO - 03082-1 vedlægges.