

ECE 04-0100-5E-MG

Appendix Software NG EN 1.04 2020-03


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Menustructure - Basisvariation


<i>Mainlevel</i>	<i>Sublevel 1</i>	<i>description</i>
Properties		Back to main level
	Change Language	English / Deutsch
	Set Clock	date – time
	Timeout Light	Time to switch off display lighting
	Update Firmware	Servicefeature (encoded)
<i>Softwarevariation</i>		Nicotra Gebhardt
Power Off	-	Switch off device

EKE 05/06 IG

Sublevel 1	Sublevel 2	Sublevel 3	description
			Back to main level
Scan Net			Scan whole network with monitor feature subsequently
Monitor	<i>State</i> <i>Speed</i> <i>Setpoint</i> <i>Max Speed</i> <i>Power</i>		State / Error „00“ → ok „>0“ → error EKE05/06 OI Actual speed value in rpm Speed setpoint in rpm Maximum speed in rpm Actual power value in W
Parameter			Back to Sublevel 1
	Broadcast ? „No“ → Parameter change for adress entered only „Yes“ → Parameter change for all connected devices	Set Speed	0..max. Speed in rpm
		Stop Fan	Stopp Fan (speed → 0 rpm)
		Set MaxSpeed	Maximum Speed in rpm
		Wave Fan	wave-function, green-red alternating for distinguishing in big networks
		RestartDelay	1s..255s (restart delay after Power OFF) (Note – 0s no restart)
		Reset Errors	Reset all errors
		EC-Mode On	Drive in classic EC-Modus
		EC-Mode Off	Drive in FOC-mode as PSM


EKE 05/06 IM


Sublevel 1	Sublevel 2	Sublevel 3	description
			Back to main level
Scan Net			Scan whole network with monitor feature subsequently
Monitor	<i>State</i> <i>Speed</i> <i>Setpoint</i> <i>Max Speed</i> <i>Power</i>		State / Error „00“ → ok „>0“ → error EKE05/06 OI Actual speed value in rpm Speed setpoint in rpm Maximum speed in rpm Actual power value in W
Parameter			Back to Sublevel 1
	Broadcast ? „No“ → Parameter change for adress entered only „Yes“ → Parameter change for all connected devices	Set Speed	0..max. Speed in rpm
		Stop Fan	Stopp Fan (speed → 0 rpm)
		Set MaxSpeed	Maximum Speed in rpm
		Wave Fan	wave-function, green-red alternating for distinguishing in big networks
		Reset Errors	Reset all errors
		EC-Mode On	Drive in classic EC-Modus
		EC-Mode Off	Drive in FOC-mode as PSM
		Timeout	0..655s Timeout Communication „0“ → disable
		Password	0..65535 (1111)
		Password new	0..65535
		Baudrate	0 - 9600 1 - 19200 2 – 38400 (default) 3 - 57600
		Parity	0 – none (default) 1 - even 2 - odd

<i>Sublevel 1</i>	<i>Sublevel 2</i>	<i>Sublevel 3</i>	<i>description</i>
Parameter Master			Back to Sublevel 1
	Baudrate		9600 19200 38400 57600 (38400)
	Parity		0 – none 1 - even 2 – odd (none)

EKE 07

<i>Sublevel 1</i>	<i>Sublevel 2</i>	<i>Sublevel 3</i>	<i>description</i>
Scan Net			Scan whole network with monitor feature subsequently
Monitor	<i>State</i> <i>Mode</i> <i>Type Fan</i> <i>Speed</i> <i>Power</i> <i>Setpoint</i> <i>max Speed</i> <i>lim Power</i> <i>lim Imot</i> <i>analog In</i> <i>Temp.IGBT</i> <i>U-DC link</i> <i>I-DC link</i> <i>U-Supply</i> <i>I Motor</i> <i>Fieldang.</i> <i>BEMF-Fac.</i> <i>Duty cyc.</i> <i>Ct P-Part</i> <i>Ct I-Part</i> <i>Samp.Rate</i> <i>SP Contr.</i> <i>K-Factor</i> <i>Sens Rng</i> <i>Sens Zero</i> <i>Sens Max</i> <i>Val. Sens</i> <i>Firmware</i>		State / Error „00“ → ok „>0“ → error EKE07 OI Modbus / analogue / closed loop List acc. EKE07 OI Actual speed value in rpm Actual power value in W Speed setpoint in rpm Maximum speed in rpm Powerlimit in W Limit Motor current in mA analogue Input (relativ) Temperatur Power module in °C DC-link voltage in V DC-link current in mA Input Voltage in V (internal math. value) Motorcurrent in mA Fieldangle in °el Back EMF-Factor Duty cycle in % (speedreserve) P-part (closed loop control) I-part (closed loop control) Sample Rate in sec (closed loop) Set point (closed loop control) K-Factor (→ acc. fan type) Sensor range (closed loop) Sensor 0-Point (closed loop) Max.value Sensor (closed loop) Sensorvalue calculated (closed loop) Firmware acc. EKE07-OI Additional description incl. numbers, limits at Parameters

Sublevel 1	Sublevel 2	Sublevel 3	description
Parameter			Back to Sublevel 1
	Broadcast ?	Reset error	Reset all errors
	„No“ → Parameter change for adress entered only	Mode	0: Modbus 1: Analogue 2: Δp -closed loop control (3: Temp.-closed loop control)
		Set Speed	0..max Speed in rpm acc. Fan type - EKE07 OI
	„Yes“ → Parameter change for all connected devices	new Address	1..247
		Baudrate	0: 9600 baud 1: 19200 baud 2: 38400 baud 3: 57600 baud (default)
		Parity	0: none 1: even (default) 2: odd
		Password	0..65535 (3701)
		max Speed	temp. (0...3700 rpm)
		lim Power	temp. (0...2000 W)
		lim Imot	temp. (0...8000 mA)
		Fieldang..	temp. (0...359 °el)
		Ct P-Part	proportional gain (Mode $\Delta p/T$ -closed loop control) 0..100
		Ct I-Part	integral part (Mode $\Delta p/T$ -closed loop control) 0..30
		Samp.Rate	Sample Rate (Mode $\Delta p/T$ -closed loop control) 5..30
		SP Contr.	Set value - closed loop control 0..65535
		Sens Rng	Sensor range (Mode $\Delta p/T$ -closed loop control) 1000..5000
		Sens Zero	zero-point reference (Mode $\Delta p/T$ -closed loop control) 0..1000
		Sens Max	Sensor Maximal value (Mode $\Delta p/T$ -closed loop control) 500..1000

<i>Sublevel 1</i>	<i>Sublevel 2</i>	<i>Sublevel 3</i>	<i>description</i>
Parameter Master			Back to Sublevel 1
	Baudrate		9600 baud 19200 baud 38400 baud 57600 baud (default)
	Parity		none even (default) odd