

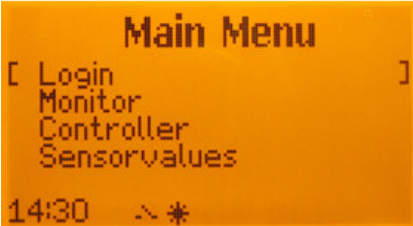
BA-ECE 03 Software – Release 2020-04-06

**ECE 03-0200-5E-IM
FANCommander 200**

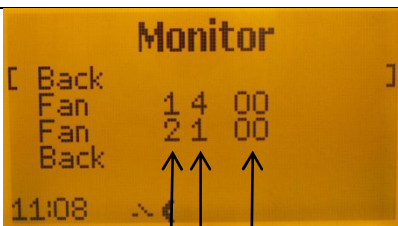


Menu Line Curser Position [....] "marked" + Time	Install Fan [Back] Uninstall Fan Scan Line +Fan 0 1 Fan 1 2 12:08 ~ ☺ ☹									
	Time →		enable extern ☒ / intern	/ off ☒	Day ☒ / Night		Alarm →	Log Memory full →		
	Manual guideline: Bold print - italic style: default setting									

start device	Accesslevel → Viewer
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Mainmenu	Submenu1	Submenu2	Login	Logout	Monitor	Control	Configuration	Controller	Sensorvalues	Errorhandler	Database	Properties
Login	Viewer		o	✗	o	✗	✗	o	o	✗	✗	✗
	Operator	→ Password	o	o	o	o	✗	o	o	o	✗	✗
	Administrator	→ Password	o	o	o	o	o	o	o	o	o	o
Logout												

	 Line Address State
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Monitor		
select address		
Error	State	Error (encoded)
speed	set point	Speed source (Off-Day-Night-Controller)
max speed	max speed	speed in rpm
Power	act. Power	set speed in rpm
		max speed in rpm
		act. Power

Control <i>(Operator level required)</i>	
Single	Chose Address
Speed Day	Set speed - day
Speed Night	Set speed - night
Offset (negative)	0 ... 10% (0%) <i>permanent reduction of value from set speed (day, night & closed loop control setting)</i>
Start Fan	start fan
Stop	stop fan
Reset	reset fan
Group	Chose group - if group is active in closed loop mode - warning occurs
...	<i>settings according single menu but for chosen group</i>
Line 1	
...	<i>settings according single menu but for Line 1</i>
Line 2	
...	<i>settings according single menu but for Line 2</i>
All Devices	
...	<i>settings according single menu but for all devices</i>

Configuration <i>(Administrator level required)</i>	
Single	Choose Address
max Speed	set maximum speed of chosen devices
Group	Chose Group
...	<i>settings according single menu but for chosen group</i>
Line 1	
...	<i>settings according single menu but for Line 1</i>
Line 2	
...	<i>settings according single menu but for Line 2</i>
All Devices	
...	<i>settings according single menu but for all devices</i>

Controller (Operator level required)		
Monitor Controller		
Controller 1		
State		
Set. Day		
Set. Night		
Val. Sens		
Controllvalue		
Controller 2		
...		<i>settings according Controller 1 but for Controller 2</i>
Control Controller		
Controller 1		
Set. Day		<i>min Value .. 50% ..max Value – according chosen unit</i>
Set. Night		<i>min Value .. 25% ..max Value – according chosen unit</i>
Start Controller		<i>Start Controller (closed loop control, or analogue mode)</i>
Stop Controller		<i>Required to activate Sensor value monitoring Stop Controller</i>
Controller 2		
...		<i>settings according Controller 1 but for Controller 2</i>
Config Controller		<i>Configuration Closed loop Controller</i>
Controller 1		
Group		0 ... 10 0 = none group 1 ... 10 = group 1 ... group 10
Kp		0 ... 100% (5%) Proportional gain
Ki		0 ... 100% (5%) Integrating gain
Tv		0 ... 100% (50%) Feed forward factor
Ta		0 ... 255 s (2s) Sample rate

Unit	<i>Rated</i> %
	<i>Velocity</i> m/s ft/min
	<i>Pressure</i> mbar Pa mmHG mmH2O
	<i>Volume</i> m3/h ft3/min
Min. Value	<i>according to unit (0)</i> <i>change cancels low limit of sensor monitoring that has been set before</i>
Max. Value	<i>according to unit (max value)</i> <i>change cancels high limit of sensor monitoring that has been set before</i>
Digital Input	Internal – according internal timer External – according Digital Input <i>Enable signal for controller 1</i>
Controll Mode	Controller - Closed loop controller Note: Change of control mode leads to reset of sensor and observing limits to default <i>Analogue Input - speed acc. analogue input</i>
Low Limit	<i>Sensor Observing - low limit</i> <i>Enable signal for controller 1</i> $\geq$ Min. Value (Sensor)
High Limit	<i>Sensor Observing - high limit</i> <i>Enable signal for controller 1</i> $\leq$ Max. Value (Sensor)
Limit Delay	<i>Limit delay time before trigger Sensor Observing</i> <i>Enable signal for controller 1</i> 0s ... 1000s
Filter Depth	0 ... 15 (6)
Controller 2	
...	<i>settings according Controller 1 but for Controller 2</i>

Sensor-values		
Val. Sens 1		Monitor Value Sensor 1
		<i>"Start controller" 1 required</i>
Val. Sens 2		Monitor Value Sensor 2
		<i>"Start controller" 2 required</i>

Errorhandler (Operator level required)			
	Quit All		Quit all existing faults
	Error a - Address 1 Error b - Address 2 ... Error n - Address n List of possible errors a ... n:		choose address - to quit individual fault
	No Error	00	status ok - no error
	Mains	01	fan mains down
	Motor Error	02	fan motor
	Speed Error	04	Fan speed error set speed not achieved
	no Response	08	no communication to installed fan
	MCU Error	16	fan controller error
	Status example:	“11” =	Error “01” + “02” + “08”
	Error clock	not encod.	internal clock needs to be set – “Set Clock”
	Limit LO	not encod.	Sensor Monitoring – low limit Note: Error only detected as new error (2) reset automatically (red light, relay 2), only entry in this Errorhandler list will endure until quitted
	Limit HI	not encod.	Sensor Monitoring – high limit Note: Error only detected as new error (2) reset automatically (red light, relay 2), only entry in this Errorhandler list will endure until quitted

Database (Administrator level required)		
Config Line		
Line 1		chose correct bus-type for line 1
Line 2		chose correct bus-type for line 2

Install Fan		
Line 1		
	Uninstall Fan	<i>uninstall all fans of this line</i>
	Scan Line	<i>whole address range scanned 0(1) ... 99(100) and installed automatically</i> NOTE! Correct fan addressing required press button longer than 3s to castle scan run <i>max-speed being read</i>
	Capture from FD	Function not supported
	Release to FD	Function not supported
	Fan ID	marked (+) fan can be installed manually <i>max. speed needs to be set (Configuration)</i>
Line 2		
	...	<i>settings according Line 1</i>
Assign Group		
	choose address	choose group to assign (0 ... 10) 0 = none group 1 ... 10 = group 1 ... group 10
Replace Device		Function not supported
	Addr. New Device	Function not supported

Properties <i>(Administrator level required)</i>	
Change Language	English ↔ German
Relay Mode	
Relay Error 1	low active ↔ high active low active: NO Error 0Ω / Error ∞ high active: NO Error ∞ / Error 0Ω

Relay Error 2 (new)	<i>low active</i> $\leftrightarrow$ high active Note: new Errors – will be reset after „quit“
Change Day/Night	
Off	<i>permanent „Day“ set</i>
Internal	<i>Schedule according „Set Timer“ Switching inactive if Error clock is active “Set Clock” to reactivate</i>
External	<i>Switch according Digital Input “Day/Night”</i>
Set Timer	<i>if day/night shift $\rightarrow$ “Internal”</i>
Start Day	hrs : min
Start Night	hrs : min
Set Clock	date : month : year hrs : min
Timeout Light	0s ... 600s 0s $\rightarrow$ <i>Light Display ON permanently</i>
auto. logout	10s ... 600s <10s $\rightarrow$ 10s 0s $\rightarrow$ <i>No auto logout</i> <i>Logout time from access level operator & administrator</i>
Change Password	
Operator	insert old – insert new – repeat new
Administrator	insert old – insert new – repeat new
Scale AI	<i>scale analogue inputs</i> NOTE 0,5V(=) and 10V(=) <i>external voltage required</i>
Clear log	<i>Memory cleared</i>
Factory default	<i>Reset factory settings</i> NOTE! – <i>The scaling of the analogue inputs will be reset too and needs to be renewed on demand!</i>
Update Firmware	<i>Service only (encoded)</i>