

Listed by register_Modbus register list UNIcon Modbus Master version 11_V1

Most common used registers:

Register addr.	Register name	Menu name	Description of the register value
i3	E1 Actual	Info	Mode 2.01 or higher; 2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
i4	E2 Actual	Info	Mode 2.01 or higher; 2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
i8	Fanlevel	Info	0-100=0-100%
i11	Error	-	128=no error; see error list on the last page
i26	K1	Diagnostic	0=OFF (dropped); 1=ON (energized)
i27	K2	Diagnostic	0=OFF (dropped); 1=ON (energized)
h6	(1.) Setpoint1	Setting	Mode 2.01 or higher; 2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
h8	(1.) Pband1	Setting	Mode 2.01 or higher; 2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit

Note: In the first column is always the register *address* starting with 0, the register *number* is always one higher, because the count starts with 1. Whether you need the register *address* or *number* depends on the PLC or the software you are using (e.g. i8 = Input register *address* 8 = Input register *number* 9). Input registers (i..) can only be read out (r). Holding registers (h..) and coil registers (c..) can be written and read out (rw). **All values here are decimals!**
It is important to use the operating instructions from the device in addition to this list! It is recommended to do the start-up physically on the device.

It is possible to control the analog and digital inputs from the device via modbus instead of a signal at the device (not additionally). The following registers replaces the function of the inputs on the device. To use the function of these modbus registers, the Busmode for the input must be activated.

See registers h123 (D1), h124 (D2), h225 (E1) and h226 (E2). **Important: Only these four registers can be written cyclically.**

Register addr.	Register name	Menu name	Description of the register value
h9000	E1 (control via modbus)	-	0-32767; unit and range depends on the settings for the input
h9001	E2 (control via modbus)	-	0-32767; unit and range depends on the settings for the input
c0	D1 (control via modbus)	-	0=OFF (deactivated); 1-65535=ON (activated)
c1	D2 (control via modbus)	-	0=OFF (deactivated); 1-65535=ON (activated)

Input registers (r): For registers with 2740=0, with factory decimals (default sensor): 2780=4°C|Pa|0.4bar|m/s|40m³/h; 2840=10°C|Pa|1bar|m/s|100m³/h

Register addr.	Register name	Menu name	Description of the register value
i1	Control Value	Info	Only in combination with two input values; value that is used for the control
i2	Setpoint Control	Info	Only in combination with an analog input with the function 6E (setpoint derating)
i3	E1 Actual	Info	Mode 2.01 or higher; 2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
i4	E2 Actual	Info	Mode 2.01 or higher; 2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
i5	(1.) Setpoint1/2 (switch.)	Info	Only in combination with a digital input with the function 5D or 15D
i6	2. Setpoint1/2 (switching)	Info	Only in combination with a digital input with the function 9D or 16D

Register addr.	Register name	Menu name	Description of the register value
i7	Set External1	Info	0-100=0-100%; only at Mode 1.01
i8	Fanlevel	Info	0-100=0-100%
i9	Speed Manual	Setting	128-228=0-100%; only with active Manual Mode
i10	Min. speed cut-off (Mscot.)	Info	0=OFF; 1=ON
i11	Error	-	128=no error; see error list on the last page
i12	UNIcon (SW-Version)	Start	1122=11.22
i14	E1 KTY	Diagnostic	2240-4240=(-50.0°C)-150°C; 2740=0°C; with active US Units: 2016-8494=(-72.4°F)-575.4°F
i15	E2 KTY	Diagnostic	2240-4240=(-50.0°C)-150°C; 2740=0°C; with active US Units: 2016-8494=(-72.4°F)-575.4°F
i16	E1 Current	Diagnostic	0-1999=0.00mA-19.9mA
i17	E2 Current	Diagnostic	0-1999=0.00mA-19.9mA
i18	E1 Voltage	Diagnostic	0-999=0.00V-9.99V
i19	E2 Voltage	Diagnostic	0-999=0.00V-9.99V
i20	D1	Diagnostic	0=OFF; 1=ON (connected to 24V)
i21	D2	Diagnostic	0=OFF; 1=ON (connected to 24V)
i22	D3	-	0=OFF; 1=ON (connected to 24V)
i23	D4	-	0=OFF; 1=ON (connected to 24V)
i26	K1	Diagnostic	0=OFF (dropped); 1=ON (energized)
i27	K2	Diagnostic	0=OFF (dropped); 1=ON (energized)
i33	Runtime Controller	Diagnostic	i34 value*65536+i33 value=Controller Runtime in seconds (i33=low byte, i34=high byte); e.g. i33 value 54200 and i34 value 11 = 11*65536+54200 = 775096s (775096s/3600=215.3h)
i34	Runtime Controller	Diagnostic	
i35	Runtime Motor	Diagnostic	i36 value*65536+i35 value=Motor Runtime in seconds (i35=low byte, i36=high byte); e.g. i35 value 43925 and i36 value 8 = 8*65536+43925 = 568213s (568213s/3600=157.8h)
i36	Runtime Motor	Diagnostic	
i37	SN	Start	value=unique device number
i43-i74	Speed Fan 1 - 32	-	in rpm; 1032=1032rpm
i75	E1 Rawvalue	-	0-32760
i76	E2 Rawvalue	-	0-32760
i86	E3 Rawvalue	-	0-32760; only in combination with Z-Modul-B02
i87	E4 Rawvalue	-	0-32760; only in combination with Z-Modul-B02
i1000	Fan 1 Speed	-	in rpm; 720=720rpm
i1001	Fan 1 Motorcurrent	-	35=0.35A
i1002	Fan 1 Input Power	-	in Watt; 18=18W
i1004	Fan 1 Failure Status	-	see ECblue Modbus Description Input Register Number 13 (Register Address i12)
i1006	Fan 1 Product Code	-	256=ECblue Basic Standard new
i1007	Fan 1 Softwareversion	-	1331=13.31

Register addr.	Register name	Menu name	Description of the register value
i1016	Fan 2 Speed	-	in rpm; 720=720rpm
i1017	Fan 2 Motorcurrent	-	35=0.35A
i1018	Fan 2 Input Power	-	in Watt; 18=18W
i1020	Fan 2 Failure Status	-	see ECblue Modbus Description Input Register Number 13 (Register Address i12)
i1022	Fan 2 Product Code	-	256=ECblue Basic Standard new
i1023	Fan 2 Softwareversion	-	1331=13.31
i1032	Fan 3 Speed	-	in rpm; 720=720rpm
i1033	Fan 3 Motorcurrent	-	35=0.35A
i1034	Fan 3 Input Power	-	in Watt; 18=18W
i1036	Fan 3 Failure Status	-	see ECblue Modbus Description Input Register Number 13 (Register Address i12)
i1038	Fan 3 Product Code	-	256=ECblue Basic Standard new
i1039	Fan 3 Softwareversion	-	1331=13.31
i1048	Fan 4 Speed	-	in rpm; 720=720rpm
i1049	Fan 4 Motorcurrent	-	35=0.35A
i1050	Fan 4 Input Power	-	in Watt; 18=18W
i1052	Fan 4 Failure Status	-	see ECblue Modbus Description Input Register Number 13 (Register Address i12)
i1054	Fan 4 Product Code	-	256=ECblue Basic Standard new
i1055	Fan 4 Softwareversion	-	1331=13.31
i1064	Fan 5 Speed	-	in rpm; 720=720rpm
i1065	Fan 5 Motorcurrent	-	35=0.35A
i1066	Fan 5 Input Power	-	in Watt; 18=18W
i1068	Fan 5 Failure Status	-	see ECblue Modbus Description Input Register Number 13 (Register Address i12)
i1070	Fan 5 Product Code	-	256=ECblue Basic Standard new
i1071	Fan 5 Softwareversion	-	1331=13.31
[...] Fan 6 - 31			
i1496	Fan 32 Speed	-	in rpm; 720=720rpm
i1497	Fan 32 Motorcurrent	-	35=0.35A
i1498	Fan 32 Input Power	-	in Watt; 18=18W
i1500	Fan 32 Failure Status	-	see ECblue Modbus Description Input Register Number 13 (Register Address i12)
i1502	Fan 32 Product Code	-	256=ECblue Basic Standard new
i1503	Fan 32 Softwareversion	-	1331=13.31

Holding registers (rw):

Register addr.	Register name	Menu name	Description of the register value
h3	PIN Input	Start	PIN=value; see PIN codes in the operating instructions from the device
h4	Language	Start	0=german; 1=english (default); 2=swedish; 3=french; 4=italian
h5	Reset	Start	0=OFF (default); 1=ON/Perform reset; Communication interruption may occur due to the restart
h6	(1.) Setpoint1	Setting	Mode 2.01 or higher; 2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
h7	(1.) Setpoint2	Setting	Mode 2.01 or higher; only in combination with a digital input with the function 5D or 15D
h8	(1.) Pband1	Setting	Mode 2.01 or higher; 2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
h9	2. Setpoint1	Setting	Mode 2.01 or higher; only with 2nd control loop
h10	2. Setpoint2	Setting	Mode 2.01 or higher; only with 2nd control loop and a digital input with the function 9D or 16D
h11	2. Pband1	Setting	Mode 2.01 or higher; only with 2nd control loop
h12	Set Intern 1	Setting	0-100=0-100%; only at Mode 1.01
h13	Set Intern 2	Setting	0-100=0-100%; only at Mode 1.01 and in combination with a digital input with the function 5D
h14	(1.) Min. Speed	Setting	0-100=0-100%; cannot be higher than (1.) Max. Speed
h15	(1.) Max. Speed	Setting	0-100=0-100%; cannot be lower than (1.) Min. Speed
h16	2. Min. Speed	Setting	0-100=0-100%; Mode 2.01 and higher; only with 2nd control loop
h17	2. Max. Speed	Setting	0-100=0-100%; Mode 2.01 and higher; only with 2nd control loop
h18	Speed Manual	Setting	0-100=0-100%; influences only control loop 1!; only between (1.) Min Speed and (1.) Max. Speed
h19	Manual Mode	Setting	0=OFF (default); 1=ON
h20	Set External1	Setting	0=OFF; 1=ON (default); only at Mode 1.01
h21	Mode	Base Setup	0=1.01; 1=1.02; 2=2.01; 3=2.02; 4=2.03; 5=2.04; 6=2.05; 7=3.01; 8=3.02; 9=3.03; 10=3.04; 11=4.01; 12=4.02; 13=4.03; 14=5.01; 15=5.02; 16=6.01
h22	1. Controllertype	Controller Setup	0=P; 1=PID; default depends on Mode
h23	(1.) Val>Set=n+	Controller Setup	0=OFF; 1=ON; default depends on Mode
h24	2. Val>Set=n+	Controller Setup	Only with 2nd control loop; 0=OFF; 1=ON; default depends on Mode
h25	(1.) Min. speed cut-off	Controller Setup	2740=OFF; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
h27	Limit	Controller Setup	Only with an digital input with the function 3D; 0-100=0-100%
h31	PIN-Protection	Controller Setup	0=OFF (default); 1=ON
h32	Set protection	Controller Setup	0=OFF (default); 1=ON
h33	Save User Setup	Controller Setup	0=OFF; 1=ON (alternative: PIN 9091 @ register h3)
h34	KP	Controller Setup	Only with PID regulation; 0-200=0-200% (default: 50)
h35	KI	Controller Setup	Only with PID regulation; 0-200=0-200% (default: 50)
h36	KD	Controller Setup	Only with PID regulation; 0-200=0-200% (default: 50)
h37	TI	Controller Setup	Only with PID regulation; 0-200=0-200% (default: 0)
h38	Alarm Sensors	Controller Setup	0=OFF; 1=ON (default)

Register addr.	Register name	Menu name	Description of the register value
h39	T-Band Setpoint Derating	Setting	Mode 2.01 or higher; only with E2 Function 6E; 2740-3740=0.0-100.0K (3060-4860=32.0°F-212.0°F)
h40	T-Start Setpoint Derating	Setting	Mode 2.01 or higher; only with E2 Function 6E; 2640-3140=(-10.0)-40.0°C (2880-3780=14.0-104.0°F)
h41	Min. Setpoint	Setting	Mode 2.01 or higher; only with E2 Function 6E; 2240-4240=(-50°C)-150.0°C; with active US Units: 2600-5220=(-14.0°F)-248.0°F
h42	E1 Unit	Base Setup	Mode 2.01 or higher; 0=mA; 1=V; 2=Hz; 3=kHz; 4=A; 5=rpm; 6=°C; 7=m³/h; 8=bar; 9=%; 10=Pa; 11=m/s; 12=m³/s; 13=Ohm; 14=mbr; 15=°F; 16=ft/s; 17=cfm; 18=ppm; 19=psi; 20=in.wg
h43	E1 Decimals	Base Setup	0=0 decimals; 1=1 decimals; 2=2 decimals; 3=3 decimals
h44	E1 Min.	Base Setup	2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
h45	E1 Max.	Base Setup	2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
h46	E1 Offset	Base Setup	2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
h47	E1 K-Factor	Base Setup	Only at Mode 5.01 & 5.02; 1-5000=1-5000 k-factor; with active US Units: 1-50000=1-50000 k-factor
h48	E1 Refrigerant	Base Setup	Only at Mode 3.02 & 3.04; 0-25=R12-R1717 (see operating instructions; default: 23=R503)
h51	E2 Unit	Base Setup	Mode 2.01 and higher; 0=mA; 1=V; 2=Hz; 3=kHz; 4=A; 5=rpm; 6=°C; 7=m³/h; 8=bar; 9=%; 10=Pa; 11=m/s; 12=m³/s; 13=Ohm; 14=mbr; 15=°F; 16=ft/s; 17=cfm; 18=ppm; 19=psi; 20=in.wg
h52	E2 Decimals	Base Setup	0=0 decimals; 1=1 decimals; 2=2 decimals; 3=3 decimals
h53	E2 Min.	Base Setup	2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
h54	E2 Max.	Base Setup	2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
h55	E2 Offset	Base Setup	2740=0; depends on decimals; +1=+1 at the last digit; -1=-1 at the last digit
h56	E2 K-Factor	Base Setup	Only with E2 Function 12E; 1-5000=1-5000 k-factor; with active US Units: 1-50000=1-50000 k-factor
h57	E2 Refrigerant	Base Setup	Only with E2 Function 10E or at Mode 3.04 with E2 Function 4E; 0-25=R12-R1717 (def: 23=R503)
h60	A1 Function	IO Setup	0=OFF; 1=1A; 2=2A (default); 3=3A; 4=4A; 5=5A; 6=8A; 7=9A; 8=11A; 9=12A; 10=14A
h61	A2 Function	IO Setup	0=OFF; 1=1A (default); 2=2A; 3=3A; 4=4A; 5=5A; 6=8A; 7=9A; 8=11A; 9=12A; 10=14A
h62	K1 Function	IO Setup	0=OFF; 1=1K (default); 2=8=2K-8K; 9=12K; 10=13K; (at Mode 1.01: 1-9=1K-6K,8K,12K,13K)
h63	K2 Function	IO Setup	0=OFF; 1=1K; 2=2K (default); 3=8=3K-8K; 9=12K; 10=13K; (at Mode 1.01: 1-9=1K-6K,8K,12K,13K)
h64	D1 Function	IO Setup	0=OFF (default); 1-16=1D-16D; 17=21D; (at Mode 1.01: 1-6=1D-6D; 7-11=10D-14D; 12=21D)
h65	D2 Function	IO Setup	0=OFF (default); 1-16=1D-16D; 17=21D; (at Mode 1.01: 1-6=1D-6D; 7-11=10D-14D; 12=21D)
-	-	IO Extension	Complete Menu only with inserted Z-Modul-B02
h66	D3 Function	IO Extension	Only with E3 Analog In=2; 0=OFF (default); 1-16=1D-16D; 17=21D; (at Mode 1.01: see D1/D2 F.)
h67	D4 Function	IO Extension	Only with E4 Analog In=2; 0=OFF (default); 1-16=1D-16D; 17=21D; (at Mode 1.01: see D1/D2 F.)
h68	E2 Function	Base Setup	0=OFF; 1-13=1E-13E; default depends on Mode; (at Mode 1.01: 0=OFF; 1=1E; 2=4E)

Register addr.	Register name	Menu name	Description of the register value
h69	E1 Analog In	Base Setup	Mode 1.01: 1=0-10V(default); 2=0-20mA; 3=4-20mA Mode 2...: 1=TF (default); 2=PT1000; 3=MTG120; 4=0-10V; 5=0-20mA; 6=4-20mA Mode 3...: 1=MBG0-30 (def.); 2=MBG0-50; 3=DSF2-25; 4=MBG1-7; 5=0-10V; 6=0-20mA; 7=4-20mA Mode 4... & 5...: 1=DSG50; 2=DSG100; 3=DSG200 (default); 4=DSG300; 5=DSG500; 6=DSG1000; 7=DSG2000; 8=DSG4000; 9=DSG6000; 12=0-10V; 13=0-20mA; 14=4-20mA Mode 6...: 1=MAL1 (default); 2=MAL10; 3=MAL15; 4=MAL20; 5=0-10V; 6=0-20mA; 7=4-20mA
h70	E2 Analog In	Base Setup	E2 Function 1E-5E & 7E=depends on Mode (see E1 Analog In); E2 Function 6E & 8E=Mode 2...; E2 F. 9E & 10E=Mode 3...; E2 F. 11E & 12E=Mode 4.../5...; E2 F. 13E=Mode 6...; see E1 Analog In
h71	A1 Min.	IO Setup	0-100=0.0-10.0V (default: 0=0.0V)
h72	A1 Max.	IO Setup	0-100=0.0-10.0V (default: 100=10.0V)
h73	A2 Min.	IO Setup	0-100=0.0-10.0V (default: 0=0.0V)
h74	A2 Max.	IO Setup	0-100=0.0-10.0V (default: 100=10.0V)
h75	Modulation Function	Limits	0=OFF (default); 1=1L; 2=2L; 3=3L; 4=4L
h76	Modulation Min.	Limits	Only with active Modulation Function (not OFF); 0-100=0-100% (default: 30=30%)
h77	Modulation Max.	Limits	Only with active Modulation Function (not OFF); 0-100=0-100% (default: 40=40%)
h78	Modulation Delay	Limits	Only with active Modulation Function (not OFF); 0-120=0-120s (default: 2=2s)
h79	Limit E1 Function	Limits	0=OFF (default); 1=1L; 2=2L; 3=3L; 4=4L
h80	Limit E1 Min.	Limits	Only with active Limit E1 Function (not OFF); 2740=0; depends on decimals; +1=+1 at the last digit
h81	Limit E1 Max.	Limits	Only with active Limit E1 Function (not OFF); 2740=0; depends on decimals; +1=+1 at the last digit
h82	Limit E1 Hysteresis	Limits	Only with active Limit E1 Function (not OFF); 2740=0; depends on decimals; +1=+1 at the last digit
h83	Limit E1 Delay	Limits	Only with active Limit E1 Function (not OFF); 0-240=0-240s (default: 2=2s)
h84	Limit E2 Function	Limits	Only with active E2 Function (not OFF); 0=OFF (default); 1=1L; 2=2L; 3=3L; 4=4L
h85	Limit E2 Min.	Limits	Only with active Limit E2 Function (not OFF); 2740=0; depends on decimals; +1=+1 at the last digit
h86	Limit E2 Max.	Limits	Only with active Limit E2 Function (not OFF); 2740=0; depends on decimals; +1=+1 at the last digit
h87	Limit E2 Hysteresis	Limits	Only with active Limit E2 Function (not OFF); 2740=0; depends on decimals; +1=+1 at the last digit
h88	Limit E2 Delay	Limits	Only with active Limit E2 Function (not OFF); 0-240=0-240s (default: 2=2s)
h89	Offset Function	Limits	Mode 2.01 or higher; 0=OFF (default); 1=1L; 2=2L; 3=3L; 4=4L; influences only control loop 1!
h90	Offset 1	Limits	Only with active Offset Function (not OFF); 2740=0; depends on decimals; +1=+1 at the last digit
h91	Offset 2	Limits	Only with active Offset Function (not OFF); 2740=0; depends on decimals; +1=+1 at the last digit
h92	Offset Hysteresis	Limits	Only with active Offset Function (not OFF); 2740=0; depends on decimals; +1=+1 at the last digit
h93	Offset Delay	Limits	Only with active Offset Function (not OFF); 0-240=0-240s (default: 2=2s)
h105	K1 Inverting	IO Setup	0=OFF (default); 1=ON
h106	K2 Inverting	IO Setup	0=OFF (default); 1=ON
h107	D1 Inverting	IO Setup	Only with active D1 (not OFF); 0=OFF (default); 1=ON

Register addr.	Register name	Menu name	Description of the register value
h108	D2 Inverting	IO Setup	Only with active D2 (not OFF); 0=OFF (default); 1=ON
h109	D3 Inverting	IO Extension	Only with E3 Analog In=2 and active D3 (not OFF); 0=OFF (default); 1=ON
h110	D4 Inverting	IO Extension	Only with E4 Analog In=2 and active D4 (not OFF); 0=OFF (default); 1=ON
h112	E1 Inverting	IO Setup	0=OFF (default); 1=ON
h113	E2 Inverting	IO Setup	Only with active E2; 0=OFF (default); 1=ON
h114	A1 Invertierung	IO Setup	0=OFF (default); 1=ON
h115	A2 Inverting	IO Setup	0=OFF (default); 1=ON
h116	On Value Group2	Controller Setup	Only with an analog output with the function 5A or a digital output with 8K; 0-100=0-100% (default: 50)
h117	nmin at Group2	Controller Setup	Only with an analog output with the function 5A or a digital output with 8K; 0-100=0-100% (default: 20)
h119	Bus Address	Modbus Slave	1-247=Address 1-247 (default: 247)
h120	UART Baudrate	Modbus Slave	0=4800; 1=9600; 2=19200 (default); 3=38400; 4=115200
h121	UART Mode	Modbus Slave	0=8N1; 1=8O1; 2=8E1 (default)
h122	Addressing	Modbus Slave	0=OFF (default); 1=ON (goes automatically to OFF after a new bus address has been set in h119)
h123	D1 Busmode	IO Setup	Only with active D1 (not OFF); 0=OFF (default); 1=ON
h124	D2 Busmode	IO Setup	Only with active D2 (not OFF); 0=OFF (default); 1=ON
h126	Time	Timer	0-5947=00:00-23:59; 1 hour=256; 1 minute=1; e.g. 08:47=8*256+47*1=2095
h127	Date	Timer	0-65123=00.00.00-31.12.99; 1 day=2048; 1 month=128; 1 year=1; e.g. 12.09.18=12*2048+...=25746
h128	Summertime Automatic	Timer	0=OFF (default); 1=North; 2=South
h129	"Day(s) Selection"	Timer	0=Mon; 1=Tue; 2=Wed; 3=Thr; 4=Fri; 5=Sat; 6=Sun; 7=Mon-Fri; 8=Sat-Sun; 9=Mon-Sun
h130	"Selected Day(s)" ON1	Timer	6144=OFF; 0-5947=00:00-23:59; 1 hour=256; 1 minute=1; e.g. 17:45=17*256+45*1=4397
h131	"Selected Day(s)" OFF1	Timer	6144=OFF; 0-5947=00:00-23:59; 1 hour=256; 1 minute=1; e.g. 17:45=17*256+45*1=4397
h132	"Selected Day(s)" ON2	Timer	6144=OFF; 0-5947=00:00-23:59; 1 hour=256; 1 minute=1; e.g. 17:45=17*256+45*1=4397
h133	"Selected Day(s)" OFF2	Timer	6144=OFF; 0-5947=00:00-23:59; 1 hour=256; 1 minute=1; e.g. 17:45=17*256+45*1=4397
h163	(1.) Pband2	Setting	Mode 2.01 or higher; only in combination with a digital input with the function 15D
h164	2. Pband2	Setting	Mode 2.01 or higher; only with 2nd control loop and a digital input with the function 16D
h165	2. Controllertype	Controller Setup	Only with 2nd control loop; 0=P; 1=PID; default depends on Mode
h166	2. Min. speed cut-off	Controller Setup	Only with 2nd control loop; 2740=OFF; depends on decimals; +1=+1 (-1=-1) at the last digit
h167	Number Steps	Base Setup	Only at Mode 1.02; 0-5=0-5 steps (default: 0)
h169	Step 1 Value	Base Setup	Only at Mode 1.02; 0-100=0-100% (default: 20)
h170	Step 2 Value	Base Setup	Only at Mode 1.02; 0-100=0-100% (default: 40)
h171	Step 3 Value	Base Setup	Only at Mode 1.02; 0-100=0-100% (default: 50)
h172	Step 4 Value	Base Setup	Only at Mode 1.02; 0-100=0-100% (default: 60)
h173	Step 5 Value	Base Setup	Only at Mode 1.02; 0-100=0-100% (default: 100)
h174	Bus Slavecount	Modbus Master	0-32=0-32 Slaves (default: 0=0 Slaves)

Register addr.	Register name	Menu name	Description of the register value
h181-h212	Function MB Fan 1 - 32	Modbus Master	0=OFF; 1=1A; 2=2A (default); 3=3A; 4=4A; 5=5A; 6=8A; 7=9A; 8=11A; 9=12A; 10=14A
h215	RTC Adjust	Timer	0-127=0-127 (default: 60=60)
h217	Group variant	Controller Setup	0=0 (default); 1=1; see operating instructions from the device
h218	OFF Value Group2	Controller Setup	Only with an analog output with the function 5A or a digital output with 8K; 0-100=0-100% (default: 45)
h219	On Value Group3	Controller Setup	Only with a digital output with the function 12K; 0-100=0-100% (default: 70)
h220	OFF Value Group3	Controller Setup	Only with a digital output with the function 12K; 0-100=0-100% (default: 65)
h221	ON Value Group4	Controller Setup	Only with a digital output with the function 13K; 0-100=0-100% (default: 85)
h222	OFF Value Group4	Controller Setup	Only with a digital output with the function 13K; 0-100=0-100% (default: 80)
h223	nmin at Group3	Controller Setup	Only with a digital output with the function 12K; 0-100=0-100% (default: 30)
h224	nmin at Group4	Controller Setup	Only with a digital output with the function 13K; 0-100=0-100% (default: 40)
h225	E1 Busmode	IO Setup	0=OFF (default); 1=ON
h226	E2 Busmode	IO Setup	Only with active E2; 0=OFF (default); 1=ON
h227	Auto Addressing	Modbus Master	Can only be started on the device, not via Modbus.
h228	A3 Function	IO Extension	0=OFF (default); 1=1A; 2=2A; 3=3A; 4=4A; 5=5A; 6=8A; 7=9A; 8=11A; 9=12A; 10=14A
h229	A3 Min.	IO Extension	0-100=0.0-10.0V (default: 0=0.0V)
h230	A3 Max.	IO Extension	0-100=0.0-10.0V (default: 100=10.0V)
h231	A3 Inverting	IO Extension	0=OFF (default); 1=ON
h232	E3 Analog In	IO Extension	1=0-10V (default); 2=DI (digital input)
h233	E4 Analog In	IO Extension	1=0-10V (default); 2=DI (digital input)
h237	E3 Function	IO Extension	Only with E3 Analog In=1; 0=OFF (default); 1=1E; 2=2E
h238	E4 Function	IO Extension	Only with E4 Analog In=1; 0=OFF (default); 1=1E; 2=2E
h242	COM2 Function	IO Setup	0=OFF; 1=Modbus Slave (default); 2=MODEM SMS
h243	SIM PIN	MODEM SMS	Only with COM2 Function 2; value=PIN (4-digit)
h244	External message	Controller Setup	Only with a digital input with the function 2D; 0=External Error (default); 1=EC Motors; 2=Filter; 3=Frost protection; 4=Adiabatic; 5=Firealarm; 6=Pressure switch; 7=Gas alarm; 8=Water alarm; 9=RCD
h272	US Units	Start	0=OFF (default); 1=ON
h273	D-D Relation	IO Setup	0=OR (default); 1=AND
h274	Override Time	Timer	0-65535=0-65535min (default: 120=120min)
h275	Override Status	Timer	0=OFF (default); 1=ON
h276	Timer Function	Timer	0=OFF (default); 1-16=1D-16D; 17=21D; (at Mode 1.01: 1-6=1D-6D; 7-11=10D-14D; 12=21D)
h277	Timer Inverting	Timer	0=OFF (default); 1=ON
h287	Offset Controlsignal 1	Controller Setup	0-100=(-50%)-50% (default: 50=0%)
h298	Selection amplifier	Controller Setup	0=OFF (default); 1=ON

Error list (register i11):

128	No error
129	General error
131	Motor fault (TK)
132	Motor blocked
133	Heat sink overtemperature
134	Ground fault
135	Hall-IC fault
136	Over current
137	Line fault
138	Line interruption heat-sink sensor
139	DC reservoir voltage to high
140	Wrong direction of rotation
141	Temperature lowering
142	Wrong connection
143	External fault (digital error input)
144	Factory setting was loaded
145	EEP error
146	RTC fault general
147	RTC voltage fault
148	Filter alarm (contamination)
150	Transfer error/Bus fault general
151	Data connection line fault
152	Data connection check sum fault
160	Sensor fault input 1
161	Sensor fault input 2