

Topic Alarm Management						
Subtopic General						
50114	uint16	10131	BITLIST Alarm General			
			01.11 New Alarm triggered		Mask: 8000h	All
			Internal		Mask: 4000h	
			Internal		Mask: 2000h	
			Internal		Mask: 1000h	
			Internal		Mask: 0800h	
			Internal		Mask: 0400h	
			Internal		Mask: 0200h	
			Internal		Mask: 0100h	
			Internal		Mask: 0080h	
			Internal		Mask: 0040h	
			01.06 Alarm class F latched		Mask: 0020h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			01.05 Alarm class E latched		Mask: 0010h	All
			01.04 Alarm class D latched		Mask: 0008h	All
			01.03 Alarm class C latched		Mask: 0004h	All
			01.02 Alarm class B latched		Mask: 0002h	All
			01.01 Alarm class A latched		Mask: 0001h	All
50115	uint16	10149	BITLIST Alarms 2 latched (unacknowledged)			
			08.30 Timeout Synchronisation GCB latched		Mask: 8000h	All
			08.31 Timeout Synchronisation MCB latched		Mask: 4000h	All
			08.32 Timeout Synchronisation GGB latched		Mask: 2000h	EG3500XT-P1 EG3500XT-P2
			05.11 Charge fail (D+ functionality) latched		Mask: 1000h	All
			Operating range failure 12 latched		Mask: 0800h	All
			08.45 CPU overload R1 trip latched		Mask: 0400h	All
			08.47 MCB failure 50BF		Mask: 0200h	All
			08.46 GCB failure 50BF		Mask: 0100h	All
			05.22 ECU Protect alarm		Mask: 0080h	All
			05.23 ECU Emission alarm		Mask: 0040h	All
			08.19 CANopen error at CAN Interface 2		Mask: 0020h	All
			08.16 Parameter Alignment LDSS		Mask: 0010h	All
			08.17 Missing members		Mask: 0008h	All
			08.48 MCB plausibility		Mask: 0004h	All
			05.13 ECU red lamp alarm latched		Mask: 0002h	All
			05.14 ECU yellow (amber) lamp alarm latched		Mask: 0001h	All
50116	uint16	4169	BITLIST Alarms 2 active			
			Timeout Synchronisation GCB		Mask: 8000h	All
			Timeout Synchronisation MCB		Mask: 4000h	All
			Timeout Synchronisation GGB		Mask: 2000h	EG3500XT-P1 EG3500XT-P2
			Charge fail (D+ functionality)		Mask: 1000h	All
			Gen/Busbar/Mains phase rotat.		Mask: 0800h	EG3500XT-P1 EG3500XT-P2
			CPU overload R1 trip		Mask: 0400h	All
			MCB failure 50BF		Mask: 0200h	All
			GCB failure 50BF		Mask: 0100h	All
			ECU Protect alarm		Mask: 0080h	All
			ECU Emission alarm		Mask: 0040h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			CANopen error at CAN Interface 2		Mask: 0020h	All
			Parameter Alignment LDSS		Mask: 0010h	All
			Missing members		Mask: 0008h	All
			MCB plausibility		Mask: 0004h	All
			ECU red lamp alarm		Mask: 0002h	All
			ECU yellow (amber) lamp alarm		Mask: 0001h	All
50117	uint16	10190	BITLIST Alarms 3 latched (unacknowledged)			
			08.34 GGB fail to close latched		Mask: 8000h	EG3500XT-P1 EG3500XT-P2
			08.35 GGB fail to open latched		Mask: 4000h	EG3500XT-P1 EG3500XT-P2
			08.27 Missing easYgen		Mask: 2000h	All
			08.28 Missing LS5		Mask: 1000h	EG3500XT-P1 EG3500XT-P2
			05.18 Cylinder temperature level 1		Mask: 0800h	All
			05.19 Cylinder temperature level 2		Mask: 0400h	All
			05.20 Cylinder temperature wire break		Mask: 0200h	All
			6.35 Pole slip		Mask: 0100h	All
			08.44 Syst.update LS5		Mask: 0080h	EG3500XT-P1 EG3500XT-P2
			08.43 Syst.update easYgen		Mask: 0040h	All
			06.32 Gen.AC Wiring		Mask: 0020h	All
			06.33 Busbar1 AC Wiring		Mask: 0010h	EG3500XT-P2
			08.29 CANopen error interface 3		Mask: 0008h	EG3500XT-P1 EG3500XT-P2
			Internal		Mask: 0004h	
			Internal		Mask: 0002h	
			Internal		Mask: 0001h	
50118	uint16	4193	BITLIST Alarms 3 active			
			GGB fail to close		Mask: 8000h	EG3500XT-P1 EG3500XT-P2
			GGB fail to open		Mask: 4000h	EG3500XT-P1 EG3500XT-P2
			Missing easYgen		Mask: 2000h	All
			Missing LS5		Mask: 1000h	EG3500XT-P1

Modbus-Address	Size	Index	Description	Unit	Scale	Model
						EG3500XT-P2
			Temperature deviation level 1		Mask: 0800h	All
			Temperature deviation level 2		Mask: 0400h	All
			Temperature deviation wire break		Mask: 0200h	All
			Pole slip		Mask: 0100h	
			Syst.update LS5		Mask: 0080h	EG3500XT-P1 EG3500XT-P2
			Syst.update easYgen		Mask: 0040h	All
			Gen.AC Wiring		Mask: 0020h	All
			Busbar1 AC Wiring		Mask: 0010h	EG3500XT-P1 EG3500XT-P2
			CANopen error interface 3		Mask: 0008h	EG3500XT-P1 EG3500XT-P2
			Internal		Mask: 0004h	
			Internal		Mask: 0002h	
			Internal		Mask: 0001h	
50119	uint16	4086	BITGROUP ControlBits8			
		8809	Operating Range Monitoring Code Number		Mask: FF00h	All
		8818	The current segment number		Mask: 00FFh	All
Subtopic Engine						
50120	uint16	10133	BITLIST Alarms 1 latched (unacknowledged)			
			05.01 Engine Over speed 1 latched		Mask: 8000h	All
			05.02 Engine Over speed 2 latched		Mask: 4000h	All
			05.03 Engine under speed 1 latched		Mask: 2000h	All
			05.04 Engine under speed 2 latched		Mask: 1000h	All
			05.05 Unintended stop detected latched		Mask: 0800h	All
			05.07 Speed detection alarm latched		Mask: 0400h	All
			05.06 Shutdown malfunction detected latched		Mask: 0200h	All
			08.05 GCB fail to close latched		Mask: 0100h	All
			08.06 GCB fail to open latched		Mask: 0080h	All
			08.07 MCB fail to close latched		Mask: 0040h	All
			08.08 MCB fail to open latched		Mask: 0020h	All
			08.10 General CAN-J1939 fault latched		Mask: 0010h	All
			05.08 Start fail detected latched		Mask: 0008h	All
			05.09 Maintenance days exceeded latched		Mask: 0004h	All
			05.10 Maintenance hours exceeded latched		Mask: 0002h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			08.18 CANopen error at CAN Interface 1		Mask: 0001h	All
50121	uint16	4167	BITLIST Alarms 1 active			
			Engine Over speed 1		Mask: 8000h	All
			Engine Over speed 2		Mask: 4000h	All
			Engine under speed 1		Mask: 2000h	All
			Engine under speed 2		Mask: 1000h	All
			Unintended stop detected		Mask: 0800h	All
			Speed detection alarm		Mask: 0400h	All
			Shutdown malfunction detected		Mask: 0200h	All
			GCB fail to close		Mask: 0100h	All
			GCB fail to open		Mask: 0080h	All
			MCB fail to close		Mask: 0040h	All
			MCB fail to open		Mask: 0020h	All
			General CAN-J1939 fault		Mask: 0010h	All
			Start fail detected		Mask: 0008h	All
			Maintenance days exceeded		Mask: 0004h	All
			Maintenance hours exceeded		Mask: 0002h	All
			CANopen error at CAN Interface 1		Mask: 0001h	All
50122	uint16	10136	BITLIST Alarms AI 1 latched (unacknowledged)			
			Internal		Mask: 8000h	
			Internal		Mask: 4000h	
			Internal		Mask: 2000h	
			Internal		Mask: 1000h	
			Internal		Mask: 0800h	
			Internal		Mask: 0400h	
			Internal		Mask: 0200h	
			Internal		Mask: 0100h	
			Internal		Mask: 0080h	
			Internal		Mask: 0040h	
			Internal		Mask: 0020h	
			05.11 Failure Charging Alternator (D+)		Mask: 0010h	All
			08.02 Battery over voltage 2 latched		Mask: 0008h	All
			08.04 Battery under voltage 2 latched		Mask: 0004h	All
			08.01 Battery over voltage 1 latched		Mask: 0002h	All
			08.03 Battery under voltage 1 latched		Mask: 0001h	All
50123	uint16	4171	BITLIST Alarms Analog Inputs 1 active			
			Internal		Mask: 8000h	

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			Internal		Mask: 4000h	
			Internal		Mask: 2000h	
			Internal		Mask: 1000h	
			Internal		Mask: 0800h	
			Internal		Mask: 0400h	
			Internal		Mask: 0200h	
			Internal		Mask: 0100h	
			Internal		Mask: 0080h	
			Internal		Mask: 0040h	
			Internal		Mask: 0020h	
			Failure Charging Alternator (D+)		Mask: 0010h	All
			Battery over voltage 2		Mask: 0008h	All
			Battery under voltage 2		Mask: 0004h	All
			Battery over voltage 1		Mask: 0002h	All
			Battery under voltage 1		Mask: 0001h	All
50124	int16		Internal			
50125	int16		Internal			
Subtopic Generator						
50126	uint16	10134	BITLIST Alarms Gen latched (unacknowledged)			
			06.01 Generator over frequency 1 latched		Mask: 8000h	All
			06.02 Generator over frequency 2 latched		Mask: 4000h	All
			06.03 Generator under frequency 1 latched		Mask: 2000h	All
			06.04 Generator under frequency 2 latched		Mask: 1000h	All
			06.05 Generator over voltage 1 latched		Mask: 0800h	All
			06.06 Generator over voltage 2 latched		Mask: 0400h	All
			06.07 Generator under voltage 1 latched		Mask: 0200h	All
			06.08 Generator under voltage 2 latched		Mask: 0100h	All
			06.09 Generator over current 1 latched		Mask: 0080h	All
			06.10 Generator over current 2 latched		Mask: 0040h	All
			06.11 Generator over current 3 latched		Mask: 0020h	All
			06.12 Reverse / reduced power 1 latched		Mask: 0010h	All
			06.13 Reverse / reduced power 2 latched		Mask: 0008h	All
			06.14 Generator overload IOP 1 latched		Mask: 0004h	All
			06.15 Generator overload IOP 2 latched		Mask: 0002h	All
			06.34 Busbar phase rotation mismatch latched		Mask: 0001h	EG3500XT-P2
50127	uint16	4161	BITLIST Alarms Generator active			
			Generator over frequency 1		Mask: 8000h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			Generator over frequency 2		Mask: 4000h	All
			Generator under frequency 1		Mask: 2000h	All
			Generator under frequency 2		Mask: 1000h	All
			Generator over voltage 1		Mask: 0800h	All
			Generator over voltage 2		Mask: 0400h	All
			Generator under voltage 1		Mask: 0200h	All
			Generator under voltage 2		Mask: 0100h	All
			Generator over current 1		Mask: 0080h	All
			Generator over current 2		Mask: 0040h	All
			Generator over current 3		Mask: 0020h	All
			Reverse / reduced power 1		Mask: 0010h	All
			Reverse / reduced power 2		Mask: 0008h	All
			Generator overload IOP 1		Mask: 0004h	All
			Generator overload IOP 2		Mask: 0002h	All
			Busbar phase rotation mismatch		Mask: 0001h	
50128	uint16	10138	BITLIST Alarms Gen 1 latched (unacknowledged)			
			06.16 Generator unbalanced load 1 latched		Mask: 8000h	All
			06.17 Generator unbalanced load 2 latched		Mask: 4000h	All
			06.18 Generator voltage asymmetry latched		Mask: 2000h	All
			06.19 Ground fault 1 latched		Mask: 1000h	All
			06.20 Ground fault 2 latched		Mask: 0800h	All
			06.21 Gen. Phase Rotation mismatch Latched		Mask: 0400h	All
			06.29 Gen. active power mismatch Latched		Mask: 0200h	All
			06.30 Generator unloading mismatch Latched		Mask: 0100h	All
			06.22 Inverse time over current Latched		Mask: 0080h	All
			06.31 Operating Range failed latched		Mask: 0040h	All
			06.23 Generator overload MOP 1 latched		Mask: 0020h	All
			06.24 Generator overload MOP 2 latched		Mask: 0010h	All
			06.25 Gen.Power Factor lagging 1 latched		Mask: 0008h	All
			06.26 Gen.Power Factor lagging 2 latched		Mask: 0004h	All
			06.27 Gen.Power Factor leading 1 latched		Mask: 0002h	All
			06.28 Gen.Power Factor leading 2 latched		Mask: 0001h	All
50129	uint16	4163	BITLIST Alarms Generator 1 active			
			Generator unbalanced load 1		Mask: 8000h	All
			Generator unbalanced load 2		Mask: 4000h	All
			Generator voltage asymmetry		Mask: 2000h	All
			Ground fault 1		Mask: 1000h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			Ground fault 2		Mask: 0800h	All
			Gen. Phase Rotation mismatch		Mask: 0400h	All
			Gen. active power mismatch		Mask: 0200h	All
			Generator unloading mismatch		Mask: 0100h	All
			Inverse time over current		Mask: 0080h	All
			Operating Range failed		Mask: 0040h	All
			Generator overload MOP 1		Mask: 0020h	All
			Generator overload MOP 2		Mask: 0010h	All
			Gen.Power Factor lagging 1		Mask: 0008h	All
			Gen.Power Factor lagging 2		Mask: 0004h	All
			Gen.Power Factor leading 1		Mask: 0002h	All
			Gen.Power Factor leading 2		Mask: 0001h	All
50130	int16		Internal			
50131	int16		Internal			
Subtopic Mains						
50132	uint16	10135	BITLIST Alarms Mains latched (unacknowledged)			
			07.06 Mains over frequency 1 latched		Mask: 8000h	All
			07.07 Mains over frequency 2 latched		Mask: 4000h	All
			07.08 Mains under frequency 1 latched		Mask: 2000h	All
			07.09 Mains under frequency 2 latched		Mask: 1000h	All
			07.10 Mains over voltage 1 latched		Mask: 0800h	All
			07.11 Mains over voltage 2 latched		Mask: 0400h	All
			07.12 Mains under voltage 1 latched		Mask: 0200h	All
			07.13 Mains under voltage 2 latched		Mask: 0100h	All
			07.14 Mains Phase shift latched		Mask: 0080h	All
			07.25 Mains decoupling latched		Mask: 0040h	All
			07.32 Mains AC Wiring		Mask: 0020h	All
			Internal		Mask: 0010h	
			Internal		Mask: 0008h	
			07.05 Mains Phase rotation mismatch latched		Mask: 0004h	All
			Internal		Mask: 0002h	
			Internal		Mask: 0001h	
50133	uint16	4188	BITLIST Alarms Mains active			
			Mains over frequency 1		Mask: 8000h	All
			Mains over frequency 2		Mask: 4000h	All
			Mains under frequency 1		Mask: 2000h	All
			Mains under frequency 2		Mask: 1000h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			Mains over voltage 1		Mask: 0800h	All
			Mains over voltage 2		Mask: 0400h	All
			Mains under voltage 1		Mask: 0200h	All
			Mains under voltage 2		Mask: 0100h	All
			Mains Phase shift		Mask: 0080h	All
			Mains decoupling		Mask: 0040h	All
			Mains AC Wiring		Mask: 0020h	All
			Internal		Mask: 0010h	
			Internal		Mask: 0008h	
			Mains Phase rotation mismatch		Mask: 0004h	All
			Internal		Mask: 0002h	
			Internal		Mask: 0001h	
50134	uint16	10278	BITLIST Alarms Mains 1 latched (unacknowledged)			
			07.21 Mains import power 1 latched		Mask: 8000h	All
			07.22 Mains import power 2 latched		Mask: 4000h	All
			07.23 Mains export power 1 latched		Mask: 2000h	All
			07.24 Mains export power 2 latched		Mask: 1000h	All
			07.17 Mains PF lagging 1 latched		Mask: 0800h	All
			07.18 Mains PF lagging 2 latched		Mask: 0400h	All
			07.19 Mains PF leading 1 latched		Mask: 0200h	All
			07.20 Mains PF leading 2 latched		Mask: 0100h	All
			07.15 Mains df/dt latched		Mask: 0080h	All
			07.16 Mains active power mismatch latched		Mask: 0040h	All
			07.28 Mains Time-dep. Voltage 1 (FRT) latched		Mask: 0020h	All
			07.33 Mains Time-dep. Voltage 3 (FRT) latched		Mask: 0010h	All
			07.27 Mains slow voltage increase (10 min)		Mask: 0008h	All
			07.31 Mains Time-dep. Voltage 2 (FRT) latched		Mask: 0004h	All
			07.29 Mains QV Monitoring step 1 latched		Mask: 0002h	All
			07.30 Mains QV Monitoring step 2 latched		Mask: 0001h	All
50135	uint16	4187	BITLIST Alarms Mains 1 active			
			Mains import power 1		Mask: 8000h	All
			Mains import power 2		Mask: 4000h	All
			Mains export power 1		Mask: 2000h	All
			Mains export power 2		Mask: 1000h	All
			Mains PF lagging 1		Mask: 0800h	All
			Mains PF lagging 2		Mask: 0400h	All
			Mains PF leading 1		Mask: 0200h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			Mains PF leading 2		Mask: 0100h	All
			Mains df/dt		Mask: 0080h	All
			Mains active power mismatch		Mask: 0040h	All
			Mains Time-dep. Voltage 1 (FRT)		Mask: 0020h	All
			Mains Time-dep. Voltage 3 (FRT)		Mask: 0010h	All
			Mains slow voltage increase (10 min)		Mask: 0008h	All
			Mains Time-dep. Voltage 2 (FRT)		Mask: 0004h	All
			QV Monitoring 1 tripped		Mask: 0002h	All
			QV Monitoring 2 tripped		Mask: 0001h	All
50136	uint16	15968	BITGROUP States			
			Internal		Mask: F000h	
		15969	Engine state 2: Off 3: Preglow 4: Crank 5: Run 6: Cool down 7: Spin down 8: Start pause 9: Idle 10: Run-up synchr. mode active 11: Run-up synchr. wait on excitation 0, 1 12, 13... : internal		Mask: 0F00h	All
		15970	Reactive load control state 2: Static 3: Isochronous 4: Reactive load control 0, 1, 5, 6, 7, 8, 9, 11, ... : internal		Mask: 00F0h	All
		15971	Real load control state 2: Static 3: Isochronous 4: Base load control 5: Export/import control 0, 1, 6, 7, 8, 9, 10, 11, ... : internal		Mask: 000Fh	All
50137	int16		Internal			
Subtopic Digital Inputs						

Modbus-Address	Size	Index	Description	Unit	Scale	Model
50138	uint16	10132	BITLIST Alarms DI 1 latched (unacknowledged)			
			09.01 Discrete input 1 latched		Mask: 8000h	All
			09.02 Discrete input 2 latched		Mask: 4000h	All
			09.03 Discrete input 3 latched		Mask: 2000h	All
			09.04 Discrete input 4 latched		Mask: 1000h	All
			09.05 Discrete input 5 latched		Mask: 0800h	All
			09.06 Discrete input 6 latched		Mask: 0400h	All
			09.07 Discrete input 7 latched		Mask: 0200h	All
			09.08 Discrete input 8 latched		Mask: 0100h	All
			09.09 Discrete input 9 latched		Mask: 0080h	All
			09.10 Discrete input 10 latched		Mask: 0040h	All
			09.11 Discrete input 11 latched		Mask: 0020h	All
			09.12 Discrete input 12 latched		Mask: 0010h	All
			Internal		Mask: 0008h	
			Internal		Mask: 0004h	
			Internal		Mask: 0002h	
			Internal		Mask: 0001h	
50139	uint16	4181	BITLIST Alarms DI 1 active			
			Discrete input 1		Mask: 8000h	All
			Discrete input 2		Mask: 4000h	All
			Discrete input 3		Mask: 2000h	All
			Discrete input 4		Mask: 1000h	All
			Discrete input 5		Mask: 0800h	All
			Discrete input 6		Mask: 0400h	All
			Discrete input 7		Mask: 0200h	All
			Discrete input 8		Mask: 0100h	All
			Discrete input 9		Mask: 0080h	All
			Discrete input 10		Mask: 0040h	All
			Discrete input 11		Mask: 0020h	All
			Discrete input 12		Mask: 0010h	All
			Internal		Mask: 0008h	
			Internal		Mask: 0004h	
			Internal		Mask: 0002h	
			Internal		Mask: 0001h	
50140	uint16	16377	BITLIST Alarms Ext. DI 1 latched (unacknowledged)			
			12.16 External discrete input 16 latched		Mask: 8000h	All
			12.15 External discrete input 15 latched		Mask: 4000h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			12.14 External discrete input 14 latched		Mask: 2000h	All
			12.13 External discrete input 13 latched		Mask: 1000h	All
			12.12 External discrete input 12 latched		Mask: 0800h	All
			12.11 External discrete input 11 latched		Mask: 0400h	All
			12.10 External discrete input 10 latched		Mask: 0200h	All
			12.09 External discrete input 9 latched		Mask: 0100h	All
			12.08 External discrete input 8 latched		Mask: 0080h	All
			12.07 External discrete input 7 latched		Mask: 0040h	All
			12.06 External discrete input 6 latched		Mask: 0020h	All
			12.05 External discrete input 5 latched		Mask: 0010h	All
			12.04 External discrete input 4 latched		Mask: 0008h	All
			12.03 External discrete input 3 latched		Mask: 0004h	All
			12.02 External discrete input 2 latched		Mask: 0002h	All
			12.01 External discrete input 1 latched		Mask: 0001h	All
50141	uint16	4185	BITLIST Alarms Ext. DI 1 active			
			External discrete input 16		Mask: 8000h	All
			External discrete input 15		Mask: 4000h	All
			External discrete input 14		Mask: 2000h	All
			External discrete input 13		Mask: 1000h	All
			External discrete input 12		Mask: 0800h	All
			External discrete input 11		Mask: 0400h	All
			External discrete input 10		Mask: 0200h	All
			External discrete input 9		Mask: 0100h	All
			External discrete input 8		Mask: 0080h	All
			External discrete input 7		Mask: 0040h	All
			External discrete input 6		Mask: 0020h	All
			External discrete input 5		Mask: 0010h	All
			External discrete input 4		Mask: 0008h	All
			External discrete input 3		Mask: 0004h	All
			External discrete input 2		Mask: 0002h	All
			External discrete input 1		Mask: 0001h	All
50142	uint16	10284	BITLIST Alarm Ext. DI 2 latched (unacknowledged)			
			12.32 External discrete input 32 latched		Mask: 8000h	All
			12.31 External discrete input 31 latched		Mask: 4000h	All
			12.30 External discrete input 30 latched		Mask: 2000h	All
			12.29 External discrete input 29 latched		Mask: 1000h	All
			12.28 External discrete input 28 latched		Mask: 0800h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			12.27 External discrete input 27 latched		Mask: 0400h	All
			12.26 External discrete input 26 latched		Mask: 0200h	All
			12.25 External discrete input 25 latched		Mask: 0100h	All
			12.24 External discrete input 24 latched		Mask: 0080h	All
			12.23 External discrete input 23 latched		Mask: 0040h	All
			12.22 External discrete input 22 latched		Mask: 0020h	All
			12.21 External discrete input 21 latched		Mask: 0010h	All
			12.20 External discrete input 20 latched		Mask: 0008h	All
			12.19 External discrete input 19 latched		Mask: 0004h	All
			12.18 External discrete input 18 latched		Mask: 0002h	All
			12.17 External discrete input 17 latched		Mask: 0001h	All
50143	uint16	4195	BITLIST Alarm Ext. DI 2 active			
			External discrete input 32		Mask: 8000h	All
			External discrete input 31		Mask: 4000h	All
			External discrete input 30		Mask: 2000h	All
			External discrete input 29		Mask: 1000h	All
			External discrete input 28		Mask: 0800h	All
			External discrete input 27		Mask: 0400h	All
			External discrete input 26		Mask: 0200h	All
			External discrete input 25		Mask: 0100h	All
			External discrete input 24		Mask: 0080h	All
			External discrete input 23		Mask: 0040h	All
			External discrete input 22		Mask: 0020h	All
			External discrete input 21		Mask: 0010h	All
			External discrete input 20		Mask: 0008h	All
			External discrete input 19		Mask: 0004h	All
			External discrete input 18		Mask: 0002h	All
			External discrete input 17		Mask: 0001h	All
50144	uint16	10283	BITLIST Alarms DI 2 latched (unacknowledged)			
			09.13 Discrete input 13 latched		Mask: 8000h	EG3500XT-P2
			09.14 Discrete input 14 latched		Mask: 4000h	EG3500XT-P2
			09.15 Discrete input 15 latched		Mask: 2000h	EG3500XT-P2
			09.16 Discrete input 16 latched		Mask: 1000h	EG3500XT-P2
			09.17 Discrete input 17 latched		Mask: 0800h	EG3500XT-P2
			09.18 Discrete input 18 latched		Mask: 0400h	EG3500XT-P2
			09.19 Discrete input 19 latched		Mask: 0200h	EG3500XT-P2
			09.20 Discrete input 20 latched		Mask: 0100h	EG3500XT-P2

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			09.21 Discrete input 21 latched		Mask: 0080h	EG3500XT-P2
			09.22 Discrete input 22 latched		Mask: 0040h	EG3500XT-P2
			09.23 Discrete input 23 latched		Mask: 0020h	EG3500XT-P2
			Internal		Mask: 0010h	
			Internal		Mask: 0008h	
			Internal		Mask: 0004h	
			Internal		Mask: 0002h	
			Internal		Mask: 0001h	
50145	uint16	4183	BITLIST Alarms DI 2 active			
			Discrete input 13		Mask: 8000h	EG3500XT-P2
			Discrete input 14		Mask: 4000h	EG3500XT-P2
			Discrete input 15		Mask: 2000h	EG3500XT-P2
			Discrete input 16		Mask: 1000h	EG3500XT-P2
			Discrete input 17		Mask: 0800h	EG3500XT-P2
			Discrete input 18		Mask: 0400h	EG3500XT-P2
			Discrete input 19		Mask: 0200h	EG3500XT-P2
			Discrete input 20		Mask: 0100h	EG3500XT-P2
			Discrete input 21		Mask: 0080h	EG3500XT-P2
			Discrete input 22		Mask: 0040h	EG3500XT-P2
			Discrete input 23		Mask: 0020h	EG3500XT-P2
			Internal		Mask: 0010h	
			Internal		Mask: 0008h	
			Internal		Mask: 0004h	
			Internal		Mask: 0002h	
			Internal		Mask: 0001h	
50146	int16		Internal			
50147	int16		Internal			
50148	int16		Internal			
50149	int16		Internal			
Subtopic Flexible Thresholds						
50150	uint16	10279	BITLIST Alarms Flex.Thresholds 1-16 latched			
			15.16 Flexible limit 16 latched		Mask: 8000h	All
			15.15 Flexible limit 15 latched		Mask: 4000h	All
			15.14 Flexible limit 14 latched		Mask: 2000h	All
			15.13 Flexible limit 13 latched		Mask: 1000h	All
			15.12 Flexible limit 12 latched		Mask: 0800h	All
			15.11 Flexible limit 11 latched		Mask: 0400h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			15.10 Flexible limit 10 latched		Mask: 0200h	All
			15.09 Flexible limit 9 latched		Mask: 0100h	All
			15.08 Flexible limit 8 latched		Mask: 0080h	All
			15.07 Flexible limit 7 latched		Mask: 0040h	All
			15.06 Flexible limit 6 latched		Mask: 0020h	All
			15.05 Flexible limit 5 latched		Mask: 0010h	All
			15.04 Flexible limit 4 latched		Mask: 0008h	All
			15.03 Flexible limit 3 latched		Mask: 0004h	All
			15.02 Flexible limit 2 latched		Mask: 0002h	All
			15.01 Flexible limit 1 latched		Mask: 0001h	All
50151	uint16	4175	BITLIST Alarms Flex.Thresholds 1-16 active			
			Flexible limit 16		Mask: 8000h	All
			Flexible limit 15		Mask: 4000h	All
			Flexible limit 14		Mask: 2000h	All
			Flexible limit 13		Mask: 1000h	All
			Flexible limit 12		Mask: 0800h	All
			Flexible limit 11		Mask: 0400h	All
			Flexible limit 10		Mask: 0200h	All
			Flexible limit 9		Mask: 0100h	All
			Flexible limit 8		Mask: 0080h	All
			Flexible limit 7		Mask: 0040h	All
			Flexible limit 6		Mask: 0020h	All
			Flexible limit 5		Mask: 0010h	All
			Flexible limit 4		Mask: 0008h	All
			Flexible limit 3		Mask: 0004h	All
			Flexible limit 2		Mask: 0002h	All
			Flexible limit 1		Mask: 0001h	All
50152	uint16	10280	BITLIST Alarms Flex.Thresholds 17-32 latched			
			15.32 Flexible limit 32 latched		Mask: 8000h	All
			15.31 Flexible limit 31 latched		Mask: 4000h	All
			15.30 Flexible limit 30 latched		Mask: 2000h	All
			15.29 Flexible limit 29 latched		Mask: 1000h	All
			15.28 Flexible limit 28 latched		Mask: 0800h	All
			15.27 Flexible limit 27 latched		Mask: 0400h	All
			15.26 Flexible limit 26 latched		Mask: 0200h	All
			15.25 Flexible limit 25 latched		Mask: 0100h	All
			15.24 Flexible limit 24 latched		Mask: 0080h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			15.23 Flexible limit 23 latched		Mask: 0040h	All
			15.22 Flexible limit 22 latched		Mask: 0020h	All
			15.21 Flexible limit 21 latched		Mask: 0010h	All
			15.20 Flexible limit 20 latched		Mask: 0008h	All
			15.19 Flexible limit 19 latched		Mask: 0004h	All
			15.18 Flexible limit 18 latched		Mask: 0002h	All
			15.17 Flexible limit 17 latched		Mask: 0001h	All
50153	uint16	4177	BITLIST Alarms Flex.Thresholds 17-32 active			
			Flexible limit 32		Mask: 8000h	All
			Flexible limit 31		Mask: 4000h	All
			Flexible limit 30		Mask: 2000h	All
			Flexible limit 29		Mask: 1000h	All
			Flexible limit 28		Mask: 0800h	All
			Flexible limit 27		Mask: 0400h	All
			Flexible limit 26		Mask: 0200h	All
			Flexible limit 25		Mask: 0100h	All
			Flexible limit 24		Mask: 0080h	All
			Flexible limit 23		Mask: 0040h	All
			Flexible limit 22		Mask: 0020h	All
			Flexible limit 21		Mask: 0010h	All
			Flexible limit 20		Mask: 0008h	All
			Flexible limit 19		Mask: 0004h	All
			Flexible limit 18		Mask: 0002h	All
			Flexible limit 17		Mask: 0001h	All
50154	uint16	10281	BITLIST Alarms Flex.Thresholds 33-40 latched			
			Internal		Mask: 8000h	
			Internal		Mask: 4000h	
			Internal		Mask: 2000h	
			Internal		Mask: 1000h	
			Internal		Mask: 0800h	
			Internal		Mask: 0400h	
			Internal		Mask: 0200h	
			Internal		Mask: 0100h	
			15.40 Flexible limit 40 latched		Mask: 0080h	All
			15.39 Flexible limit 39 latched		Mask: 0040h	All
			15.38 Flexible limit 38 latched		Mask: 0020h	All
			15.37 Flexible limit 37 latched		Mask: 0010h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			15.36 Flexible limit 36 latched		Mask: 0008h	All
			15.35 Flexible limit 35 latched		Mask: 0004h	All
			15.34 Flexible limit 34 latched		Mask: 0002h	All
			15.33 Flexible limit 33 latched		Mask: 0001h	All
50155	uint16	4179	BITLIST Alarms Flex.Thresholds 33-40 active			
			Internal		Mask: 8000h	
			Internal		Mask: 4000h	
			Internal		Mask: 2000h	
			Internal		Mask: 1000h	
			Internal		Mask: 0800h	
			Internal		Mask: 0400h	
			Internal		Mask: 0200h	
			Internal		Mask: 0100h	
			Flexible limit 40		Mask: 0080h	All
			Flexible limit 39		Mask: 0040h	All
			Flexible limit 38		Mask: 0020h	All
			Flexible limit 37		Mask: 0010h	All
			Flexible limit 36		Mask: 0008h	All
			Flexible limit 35		Mask: 0004h	All
			Flexible limit 34		Mask: 0002h	All
			Flexible limit 33		Mask: 0001h	All
50156	int16		Internal			
50157	int16		Internal			
50158	int16		Internal			
Subtopic DC Analogue Values Wirebreak						
50159	uint16	10137	BITLIST Alarms AI Wire Break latched			
			Internal		Mask: 0001h	
			10.01 Analog input 1 wire break		Mask: 0002h	All
			10.02 Analog input 2 wire break		Mask: 0004h	All
			10.03 Analog input 3 wire break		Mask: 0008h	All
			10.04 Analog input 4 wire break		Mask: 0010h	EG3500XT-P2
			10.05 Analog input 5 wire break		Mask: 0020h	EG3500XT-P2
			10.06 Analog input 6 wire break		Mask: 0040h	EG3500XT-P2
			10.07 Analog input 7 wire break		Mask: 0080h	EG3500XT-P2
			10.08 Analog input 8 wire break		Mask: 0100h	EG3500XT-P2
			10.09 Analog input 9 wire break		Mask: 0200h	EG3500XT-P2
			10.10 Analog input 10 wire break		Mask: 0400h	EG3500XT-P2

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			Internal		Mask: 0800h	
			Internal		Mask: 1000h	
			Internal		Mask: 2000h	
			Internal		Mask: 4000h	
			Internal		Mask: 8000h	
50160	uint16	4173	BITLIST Alarms AI Wire Break active			
			Internal		Mask: 0001h	
			Analog input 1 wire break		Mask: 0002h	All
			Analog input 2 wire break		Mask: 0004h	All
			Analog input 3 wire break		Mask: 0008h	All
			Analog input 4 wire break		Mask: 0010h	EG3500XT-P2
			Analog input 5 wire break		Mask: 0020h	EG3500XT-P2
			Analog input 6 wire break		Mask: 0040h	EG3500XT-P2
			Analog input 7 wire break		Mask: 0080h	EG3500XT-P2
			Analog input 8 wire break		Mask: 0100h	EG3500XT-P2
			Analog input 9 wire break		Mask: 0200h	EG3500XT-P2
			Analog input 10 wire break		Mask: 0400h	EG3500XT-P2
			Internal		Mask: 0800h	
			Internal		Mask: 1000h	
			Internal		Mask: 2000h	
			Internal		Mask: 4000h	
			Internal		Mask: 8000h	
50161	uint16	10285	BITLIST Alarms Ext.AI Wire Break latched			
			25.01 Ext. analog input 1 wire break		Mask: 0001h	All
			25.02 Ext. analog input 2 wire break		Mask: 0002h	All
			25.03 Ext. analog input 3 wire break		Mask: 0004h	All
			25.04 Ext. analog input 4 wire break		Mask: 0008h	All
			25.05 Ext. analog input 5 wire break		Mask: 0010h	All
			25.06 Ext. analog input 6 wire break		Mask: 0020h	All
			25.07 Ext. analog input 7 wire break		Mask: 0040h	All
			25.08 Ext. analog input 8 wire break		Mask: 0080h	All
			25.09 Ext. analog input 9 wire break		Mask: 0100h	All
			25.10 Ext. analog input 10 wire break		Mask: 0200h	All
			25.11 Ext. analog input 11 wire break		Mask: 0400h	All
			25.12 Ext. analog input 12 wire break		Mask: 0800h	All
			25.13 Ext. analog input 13 wire break		Mask: 1000h	All
			25.14 Ext. analog input 14 wire break		Mask: 2000h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			25.15 Ext. analog input 15 wire break		Mask: 4000h	All
			25.16 Ext. analog input 16 wire break		Mask: 8000h	All
50162	uint16	4196	BITLIST Alarms Ext.AI Wire Break active			
			Ext. analog input 1 wire break		Mask: 0001h	All
			Ext. analog input 2 wire break		Mask: 0002h	All
			Ext. analog input 3 wire break		Mask: 0004h	All
			Ext. analog input 4 wire break		Mask: 0008h	All
			Ext. analog input 5 wire break		Mask: 0010h	All
			Ext. analog input 6 wire break		Mask: 0020h	All
			Ext. analog input 7 wire break		Mask: 0040h	All
			Ext. analog input 8 wire break		Mask: 0080h	All
			Ext. analog input 9 wire break		Mask: 0100h	All
			Ext. analog input 10 wire break		Mask: 0200h	All
			Ext. analog input 11 wire break		Mask: 0400h	All
			Ext. analog input 12 wire break		Mask: 0800h	All
			Ext. analog input 13 wire break		Mask: 1000h	All
			Ext. analog input 14 wire break		Mask: 2000h	All
			Ext. analog input 15 wire break		Mask: 4000h	All
			Ext. analog input 16 wire break		Mask: 8000h	All
50163	int16		Internal			
50164	int16		Internal			
Subtopic Other Alarms						
50165	uint16	10286	BITLIST Other Alarms 1 latched (unacknowledged)			
			08.53 LS interface redundancy latched		Mask: 8000h	EG3500XT-P1 EG3500XT-P2
			Internal		Mask: 4000h	
			Free alarm 4		Mask: 2000h	All
			Free alarm 3		Mask: 1000h	All
			Free alarm 2		Mask: 0800h	All
			Free alarm 1		Mask: 0400h	All
			05.21 Max. starts per time		Mask: 0200h	K36
			17.09 Neutral interl. reply mismatch latched		Mask: 0100h	All
			17.08 Decoupling GCB-MCB latched		Mask: 0080h	All
			17.07 Measurement difference 4105 latched		Mask: 0040h	All
			17.06 Parameter alignment 4105 latched		Mask: 0020h	All
			17.05 Missing member 4105 latched		Mask: 0010h	All

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			08.22 Busbar v/f not ok latched		Mask: 0008h	All
			08.21 Feedback GCB mismatch latched		Mask: 0004h	MARINE
			17.02 Reactive load share mismatch latched		Mask: 0002h	All
			17.01 Active load share mismatch latched		Mask: 0001h	All
50166	uint16	5197	BITLIST Other Alarms 1 active			
			LS interface redundancy active		Mask: 8000h	EG3500XT-P1 EG3500XT-P2
			Internal		Mask: 4000h	
			Free alarm 4 active		Mask: 2000h	All
			Free alarm 3 active		Mask: 1000h	All
			Free alarm 2 active		Mask: 0800h	All
			Free alarm 1 active		Mask: 0400h	All
			Internal		Mask: 0200h	
			Neutral contactor failure active		Mask: 0100h	All
			Decoupling GCB-MCB active		Mask: 0080h	All
			Meas.difference 4105 VDE-AR-N 4105 active		Mask: 0040h	All
			Parameter alignment VDE-AR-N 4105 active		Mask: 0020h	All
			Missing member VDE-AR-N 4105 active		Mask: 0010h	All
			Busbar monitoring latched active		Mask: 0008h	All
			Internal		Mask: 0004h	
			Reactive load sharing mismatch latched		Mask: 0002h	All
			Active load sharing mismatch latched		Mask: 0001h	All
50167	uint16	4085	BITLIST Internal Flags 1-16			
			96.16 LM Internal Flag 16		Mask: 8000h	All
			96.15 LM Internal Flag 15		Mask: 4000h	All
			96.14 LM Internal Flag 14		Mask: 2000h	All
			96.13 LM Internal Flag 13		Mask: 1000h	All
			96.12 LM Internal Flag 12		Mask: 0800h	All
			96.11 LM Internal Flag 11		Mask: 0400h	All
			96.10 LM Internal Flag 10		Mask: 0200h	All
			96.09 LM Internal Flag 9		Mask: 0100h	All
			96.08 LM Internal Flag 8		Mask: 0080h	All
			96.07 LM Internal Flag 7		Mask: 0040h	All
			96.06 LM Internal Flag 6		Mask: 0020h	All
			96.05 LM Internal Flag 5		Mask: 0010h	All
			96.04 LM Internal Flag 4		Mask: 0008h	All
			96.03 LM Internal Flag 3		Mask: 0004h	All

9 Appendix

9.2.7 Protocol 5016 (Basic Visualization)

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			96.02 LM Internal Flag 2		Mask: 0002h	All
			96.01 LM Internal Flag 1		Mask: 0001h	All
50168	uint16	4095	BITLIST Internal Flags 17-32			
			96.32 LM Internal Flag 32		Mask: 8000h	All
			96.31 LM Internal Flag 31		Mask: 4000h	All
			96.30 LM Internal Flag 30		Mask: 2000h	All
			96.29 LM Internal Flag 29		Mask: 1000h	All
			96.28 LM Internal Flag 28		Mask: 0800h	All
			96.27 LM Internal Flag 27		Mask: 0400h	All
			96.26 LM Internal Flag 26		Mask: 0200h	All
			96.25 LM Internal Flag 25		Mask: 0100h	All
			96.24 LM Internal Flag 24		Mask: 0080h	All
			96.23 LM Internal Flag 23		Mask: 0040h	All
			96.22 LM Internal Flag 22		Mask: 0020h	All
			96.21 LM Internal Flag 21		Mask: 0010h	All
			96.20 LM Internal Flag 20		Mask: 0008h	All
			96.19 LM Internal Flag 19		Mask: 0004h	All
			96.18 LM Internal Flag 18		Mask: 0002h	All
			96.17 LM Internal Flag 17		Mask: 0001h	All
50169	uint16	10282	BITLIST Free Alarms 1 latched (unacknowledged)			
			16.16 Free alarm 16 latched		Mask: 8000h	All
			16.15 Free alarm 15 latched		Mask: 4000h	All
			16.14 Free alarm 14 latched		Mask: 2000h	All
			16.13 Free alarm 13 latched		Mask: 1000h	All
			16.12 Free alarm 12 latched		Mask: 0800h	All
			16.11 Free alarm 11 latched		Mask: 0400h	All
			16.10 Free alarm 10 latched		Mask: 0200h	All
			16.09 Free alarm 9 latched		Mask: 0100h	All
			16.08 Free alarm 8 latched		Mask: 0080h	All
			16.07 Free alarm 7 latched		Mask: 0040h	All
			16.06 Free alarm 6 latched		Mask: 0020h	All
			16.05 Free alarm 5 latched		Mask: 0010h	All
			16.04 Free alarm 4 latched		Mask: 0008h	All
			16.03 Free alarm 3 latched		Mask: 0004h	All
			16.02 Free alarm 2 latched		Mask: 0002h	All
			16.01 Free alarm 1 latched		Mask: 0001h	All
50170	uint16	4194	BITLIST Free Alarms 1 active			

Modbus-Address	Size	Index	Description	Unit	Scale	Model
			Free alarm 16 active		Mask: 8000h	All
			Free alarm 15 active		Mask: 4000h	All
			Free alarm 14 active		Mask: 2000h	All
			Free alarm 13 active		Mask: 1000h	All
			Free alarm 12 active		Mask: 0800h	All
			Free alarm 11 active		Mask: 0400h	All
			Free alarm 10 active		Mask: 0200h	All
			Free alarm 9 active		Mask: 0100h	All
			Free alarm 8 active		Mask: 0080h	All
			Free alarm 7 active		Mask: 0040h	All
			Free alarm 6 active		Mask: 0020h	All
			Free alarm 5 active		Mask: 0010h	All
			Free alarm 4 active		Mask: 0008h	All
			Free alarm 3 active		Mask: 0004h	All
			Free alarm 2 active		Mask: 0002h	All
			Free alarm 1 active		Mask: 0001h	All