

Group: Basic settings

Subgroup: Name

Gen-Set Name

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	0 .. 15 characters [-]		
Default value	InteliLite	Alternative config	NO
Step	[-]		
Comm object	8637	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
User defined name, used for the controller identification at remote phone or mobile connection. Gen-Set Name is maximally 15 characters long and can be entered using IntelliConfig or from controller's configuration menu.			
Note: If the Gen-Set Name is "TurboRunHours", the running hours will be counted faster - 1 minute in real will represent 1 hour.			

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Subgroup: Power settings

Nominal Power Split Phase

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	1 .. 5 000 [kW]		
Default value	200 kW	Alternative config	Yes
Step	1 kW		
Comm object	9977	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Connection type (page 177)		
Description			
Nominal power of the gen-set for detected split-phase or mono phase connection. Generator Overload BOC (page 227) protection is based on this setpoint.			
<i>Note: This setpoint is used when setpoint Connection type (page 177) is adjusted to Autodetect and Autodetect detects connection type as Monophase or Splitphase.</i>			
<i>Note: To lock this setpoint against editing you also have to lock setpoint Nominal Power Split Phase 1 (page 333), Nominal Power Split Phase 2 (page 337) and Nominal Power Split Phase 3 (page 341).</i>			

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Nominal Power

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	1 .. 5 000 [kW]		
Default value	200 kW	Alternative config	Yes
Step	1 kW		
Comm object	8276	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Nominal power of the gen-set. Generator Overload BOC (page 227) protection is based on this setpoint.			
<i>Note: This setpoint is used when setpoint Connection type (page 177) is adjusted to Monophase or Splitphase or 3Ph3Wire or High Leg D or 3Ph4Wire or when Autodetect detects connection type as 3Ph3Wire or High Leg D or 3Ph4Wire.</i>			
<i>Note: To lock this setpoint against editing you also have to lock setpoint Nominal Power 1 (page 332), Nominal Power 2 (page 336) and Nominal Power 3 (page 340).</i>			

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Subgroup: Current settings

Nominal Current

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	1 .. 10 000 [A]		
Default value	350 A	Alternative config	YES
Step	1 A		
Comm object	8275	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Connection type (page 177) .		
Description			
It is current limit for mains current protections and means maximal continuous mains current. Nominal Current can be different from mains rated current value.			
Note: To lock this setpoint against editing you also have to lock setpoint Nominal Current 1 (page 330) , Nominal Current 2 (page 334) and Nominal Current 3 (page 338) .			

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CT Ratio

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	1 .. 5 000 [A/5A]		
Default value	2 000 A/5A	Alternative config	NO
Step	1 A/5A		
Comm object	8274	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Gen-set current transformers ratio.			
Note: Generator currents and power measurement is suppressed if current level is below 1% of CT range.			

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Subgroup: Voltage settings**Connection type**

Setpoint group	Basic settings	Related FW	1.8.0								
Range [units]	Mono Phase / SplPhL1L2 / SplPhL1L3/ 3Ph3Wire / High Leg D / 3Ph4Wire / Autodetect [-]										
Default value	3Ph4Wire	Alternative config	YES								
Step	[-]										
Comm object	11628	Related applications	AMF, MRS								
Config level	Standard										
Setpoint visibility	Always										
Description											
Connection type:											
<table><tr><td>Mono Phase</td><td>Single phase voltage measurement L1-N 1x CT (Current Transformer)</td></tr><tr><td>SplPhL1L2</td><td>Double Delta connection Split Phase Two phase voltage measurement L1,L2 with 180° phase shift 2x CT (Current Transformer)</td></tr><tr><td>SplPhL1L3</td><td>Double Delta connection Split Phase Two phase voltage measurement L1,L3 with 180° phase shift 2x CT (Current Transformer)</td></tr><tr><td>3Ph3Wire</td><td>Ungrounded Delta connection Open Delta Ungrounded Wye</td></tr></table>				Mono Phase	Single phase voltage measurement L1-N 1x CT (Current Transformer)	SplPhL1L2	Double Delta connection Split Phase Two phase voltage measurement L1,L2 with 180° phase shift 2x CT (Current Transformer)	SplPhL1L3	Double Delta connection Split Phase Two phase voltage measurement L1,L3 with 180° phase shift 2x CT (Current Transformer)	3Ph3Wire	Ungrounded Delta connection Open Delta Ungrounded Wye
Mono Phase	Single phase voltage measurement L1-N 1x CT (Current Transformer)										
SplPhL1L2	Double Delta connection Split Phase Two phase voltage measurement L1,L2 with 180° phase shift 2x CT (Current Transformer)										
SplPhL1L3	Double Delta connection Split Phase Two phase voltage measurement L1,L3 with 180° phase shift 2x CT (Current Transformer)										
3Ph3Wire	Ungrounded Delta connection Open Delta Ungrounded Wye										

	Corner-Grounded Delta Split Phase Delta Three phase voltage measurement L1,L2,L3 with 120° phase shift No neutral is available 3x CT (Current Transformer)																				
High Leg D	High Leg Delta connection Three phase voltage measurement L1,L2,L3 3x CT (Current Transformer)																				
3Ph4Wire	Grounded Star (Grounded Wye) connection – 3PY Three phase voltage measurement L1,L2,L3 with 120° phase shift 3x CT (Current Transformer)																				
Autodetect	<table> <tr> <td>High Leg Delta</td><td> $L1 \geq 100V$; $L1 \leq 140V$ $L2 \geq 140V$ $L3 \geq 100V$; $L3 \leq 140V$ </td></tr> <tr> <td>or</td><td></td></tr> <tr> <td>3PH3Wire or 3Ph4Wire</td><td> $L1 \geq 100V$ $L2 \geq 100V$ $L3 \geq 100V$ </td></tr> <tr> <td>or</td><td></td></tr> <tr> <td>SplPhL1L2</td><td> $L1 \geq 100V$ $L2 \geq 100V$ $L3 \leq 20V$ </td></tr> <tr> <td>or</td><td></td></tr> <tr> <td>SplPhL1L3</td><td> $L1 \geq 100V$ $L2 \leq 20V$ $L3 \geq 100V$ </td></tr> <tr> <td>or</td><td></td></tr> <tr> <td>Mono Phase</td><td> $L1 \geq 100V$ $L2 \leq 20V$ $L3 \leq 20V$ </td></tr> <tr> <td>or</td><td></td></tr> </table> <p>Voltage Autodetect shutdown</p>	High Leg Delta	$L1 \geq 100V$; $L1 \leq 140V$ $L2 \geq 140V$ $L3 \geq 100V$; $L3 \leq 140V$	or		3PH3Wire or 3Ph4Wire	$L1 \geq 100V$ $L2 \geq 100V$ $L3 \geq 100V$	or		SplPhL1L2	$L1 \geq 100V$ $L2 \geq 100V$ $L3 \leq 20V$	or		SplPhL1L3	$L1 \geq 100V$ $L2 \leq 20V$ $L3 \geq 100V$	or		Mono Phase	$L1 \geq 100V$ $L2 \leq 20V$ $L3 \leq 20V$	or	
High Leg Delta	$L1 \geq 100V$; $L1 \leq 140V$ $L2 \geq 140V$ $L3 \geq 100V$; $L3 \leq 140V$																				
or																					
3PH3Wire or 3Ph4Wire	$L1 \geq 100V$ $L2 \geq 100V$ $L3 \geq 100V$																				
or																					
SplPhL1L2	$L1 \geq 100V$ $L2 \geq 100V$ $L3 \leq 20V$																				
or																					
SplPhL1L3	$L1 \geq 100V$ $L2 \leq 20V$ $L3 \geq 100V$																				
or																					
Mono Phase	$L1 \geq 100V$ $L2 \leq 20V$ $L3 \leq 20V$																				
or																					

Note: To lock this setpoint against editing you also have to lock setpoint **Connection Type 1** (page 329), **Connection type 2** (page 333) and **Connection type 3** (page 337).

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Nominal Voltage Ph-N

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	80 .. 20 000 [V]		
Default value	231 V	Alternative config	YES
Step	1 V		
Comm object	8277	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Connection type (page 177) .		
Description			
Nominal voltage (phase to neutral).			
Note: To lock this setpoint against editing you also have to lock setpoint Nominal Voltage Ph-N 1 (page 331) , Nominal Voltage Ph-N 2 (page 335) and Nominal Voltage Ph-N 3 (page 339) .			

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Nominal Voltage Ph-Ph

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	80 .. 40 000 [V]		
Default value	400 V	Alternative config	YES
Step	1 V		
Comm object	11657	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Connection type (page 177) .		
Description			
Nominal system voltage (phase to phase).			
Note: To lock this setpoint against editing you also have to lock setpoint Nominal Voltage Ph-Ph 1 (page 332) , Nominal Voltage Ph-Ph 2 (page 336) and Nominal Voltage Ph-Ph 3 (page 340) .			

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PT Ratio

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	0,1 .. 500,0 [V/V]		
Default value	1,0 V/V	Alternative config	NO
Step	0,1 V/V		
Comm object	9579	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Generator voltage potential transformers ratio. If no PTs are used, adjust the setpoint to 1.			

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Vm PT Ratio

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	0,1 .. 500,0 [V/V]		
Default value	1,0 V/V	Alternative config	NO
Step	0,1 V/V		
Comm object	9580	Related applications	AMF
Config level	Advanced		
Setpoint visibility	Conditioned by the setpoint Operation Mode (page 183)		
Description			
Mains voltage potential transformers ratio. If no PTs are used, adjust the setpoint to 1.			

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Subgroup: Frequency settings**Nominal Frequency**

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	45 .. 65 [Hz]		
Default value	50 Hz	Alternative config	YES
Step	1 Hz		
Comm object	8278	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Nominal system frequency (usually 50 or 60 Hz).			
Note: To lock this setpoint against editing you also have to lock setpoint Nominal Frequency 1 (page 331) , Nominal Frequency 2 (page 335) and Nominal Frequency 3 (page 339) .			

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Gear Teeth

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	FGen->RPM / 1 .. 500 [-]		
Default value	120	Alternative config	NO
Step	1		
Comm object	8252	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Number of teeth on the engine flywheel where the pick-up is installed. Set to zero if no pick-up is used and the Engine speed will be counted from the generator frequency.			
Note: If no pickup is used, the D+ or W terminal should be used to prevent possible overcranking, which can occur if at least 25% of nominal generator voltage is not present immediately after exceeding firing speed.			

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Nominal RPM

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	100 .. 4 000 [RPM]		
Default value	1 500 RPM	Alternative config	YES
Step	1 RPM		
Comm object	8253	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Nominal engine speed (RPM - revolutions per minute).			
Note: To lock this setpoint against editing you also have to lock setpoint Nominal RPM 1 (page 331) , Nominal RPM 2 (page 335) and Nominal RPM 3 (page 339) .			

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Subgroup: Controller settings

Controller mode

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	OFF / MAN / AUTO[-]		
Default value	OFF	Alternative config	NO
Step	[-]		
Comm object	8315	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
This setpoint can be used for changing the Controller mode remotely, e.g. via MODBUS. Use the mode selector on the main screen for changing the mode from the front panel. Use mode selector in the control window for changing the mode from IntelliConfig.			


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Power On Mode

Setpoint group	Basic settings	Related FW	1.8.0				
Range [units]	Previous / OFF [-]						
Default value	Previous	Alternative config	NO				
Step	[-]						
Comm object	13000	Related applications	AMF, MRS				
Config level	Advanced						
Setpoint visibility	Always						
Description							
This setpoint adjusts controller mode after power on of controller.							
<table><tr><td>Previous</td><td>When controller is power on, than is switched into last mode before power off.</td></tr><tr><td>OFF</td><td>When controller is power on, than is switched into OFF mode.</td></tr></table>				Previous	When controller is power on, than is switched into last mode before power off.	OFF	When controller is power on, than is switched into OFF mode.
Previous	When controller is power on, than is switched into last mode before power off.						
OFF	When controller is power on, than is switched into OFF mode.						
<p>Note: Remote modes - In case that some LBI remote mode is activated during power on of controller than this LBI has higher priority than this setpoint - controller mode is forced into mode selected via LBI. After deactivation of LBI, controller is switched into value selected via setpoint Power On Mode</p>							

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Operation Mode

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	AMF / MRS [-]		
Default value	AMF	Alternative config	NO
Step	[-]		
Comm object	12157	Related applications	AMF
Config level	Advanced		
Setpoint visibility	Always		
Description			
Based on this setpoint is defined basic controller function.			
AMF	Normal AMF operation		
MRS	When MRS mode is selected the controller will not perform AMF functions anymore. MCB button  will be inactive and also mains measurement and protections will be disabled. The controller will keep TEST mode and the gen-set in AUTO mode will be able to start by REMOTE START/STOP (PAGE 534) binary input.		

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Controller Address

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	1 .. 32 [-]		
Default value	1	Alternative config	NO
Step	1		
Comm object	24537	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Controller identification number. It is possible to set controller address different from the default value (1) so that more IL controllers can be interconnected (via RS485) and accessed e.g. from MODBUS terminal.			
Note: When opening connection to the controller it's address has to correspond with the setting in PC tool.			
Note: This setpoint is common for CM-Ethernet, CM-GPRS and CM-4G-GPS modules.			

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Reset To Manual

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	Disabled / Enabled [-]		
Default value	Disabled	Alternative config	NO
Step	[-]		
Comm object	9983	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
If this function is enabled, the controller will switch automatically to MAN mode when there is a red alarm in the alarm list and fault reset button is pressed. This is a safety function that prevents the gen-set starting again automatically in specific cases when fault reset button is pressed.			
<div>Example:</div> Controller is in AUTO mode and there is red inactive unconfirmed alarm and fault reset button is pressed, controller will start automatically.			

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Backlight Timeout

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	Disabled / 1 .. 255 [min]		
Default value	Disabled	Alternative config	NO
Step	1 min		
Comm object	10121	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
The display backlight is switched off when this timer exceed. When setpoint is adjusted to disabled then the display will be backlighted all the time.			


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Horn Timeout

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	Disabled / 1 .. 599 [s]		
Default value	10 s	Alternative config	NO
Step	1 s		
Comm object	8264	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Setting of horn behavior.			
Disabled	Disabling the Horn sounding function		
1 .. 599 [s]	Timeout for HORN (PAGE 578) binary output. The HORN (PAGE 578) output is opened when this timeout elapsed.		
Note: Horn timeout starts again from the beginning if a new alarm appears before previous Horn timeout has elapsed.			

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Zero Power Mode

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	Disabled / 1 - 360 [min]		
Default value	Disabled	Alternative config	NO
Step	1 min		
Comm object	8548	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
<p>The controller is switched to Zero Power Mode when there is no user interaction with the controller for the preset time period. Zero Power Mode is disabled in AMF automatic mode. For the controller wake up press button Start  or activate Binary Input 1. The controller will not switch to Zero Power Mode if generator is running. In Zero Power Mode binary outputs go to high impedance.</p>			
<p>Note: Power consumption of controller in Zero Power Mode is 0 mA. Controller is internally disconnected from power supply.</p>			

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RunHoursSource

Setpoint group	Basic settings	Related FW	1.8.0						
Range [units]	AUTO/ECU/INTERNAL [-]								
Default value	AUTO	Alternative config	NO						
Step	[-]								
Comm object	13345	Related applications	AMF, MRS						
Config level	Advanced								
Setpoint visibility	Always								
Description									
This setpoint selects source of running hours									
<table><tr><td>AUTO</td><td>If there is some ECU which send valid running hours, then this value is used. Otherwise value from internal counter is used.</td></tr><tr><td>ECU</td><td>Running hours are taken from ECU if ECU send valid data. It is not possible to set and reset this value in statistics.</td></tr><tr><td>INTERNAL</td><td>Running hours are taken from internal counter. It is possible to set and reset this value in statistics.</td></tr></table>				AUTO	If there is some ECU which send valid running hours, then this value is used. Otherwise value from internal counter is used.	ECU	Running hours are taken from ECU if ECU send valid data. It is not possible to set and reset this value in statistics.	INTERNAL	Running hours are taken from internal counter. It is possible to set and reset this value in statistics.
AUTO	If there is some ECU which send valid running hours, then this value is used. Otherwise value from internal counter is used.								
ECU	Running hours are taken from ECU if ECU send valid data. It is not possible to set and reset this value in statistics.								
INTERNAL	Running hours are taken from internal counter. It is possible to set and reset this value in statistics.								
Note: It is not necessary to restart controller when this setpoint is changed. Change of this setpoint should be applied immediately.									

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Screen Filter

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	Enable/Disabled [-]		
Default value	Disabled	Alternative config	NO
Step	[-]		
Comm object	15889	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
This setpoint enables/disables filter values on CU screen and PC tools. List of values which are filtered when filter is ON.			
<div><div></div><div>Generator Voltage L1-L2</div></div> <div><div></div><div>Generator Voltage L2-L3</div></div> <div><div></div><div>Generator Voltage L3-L1</div></div> <div><div></div><div>Generator Voltage L1-N</div></div> <div><div></div><div>Generator Voltage L2-N</div></div> <div><div></div><div>Generator Voltage L3-N</div></div> <div><div></div><div>Generator Frequency</div></div> <div><div></div><div>Load kVA</div></div> <div><div></div><div>Load kVA L1</div></div> <div><div></div><div>Load kVA L2</div></div> <div><div></div><div>Load kVA L3</div></div> <div><div></div><div>Load kVAr</div></div> <div><div></div><div>Load kVAr L1</div></div> <div><div></div><div>Load kVAr L2</div></div> <div><div></div><div>Load kVAr L3</div></div> <div><div></div><div>Load kW</div></div> <div><div></div><div>Load kW L1</div></div> <div><div></div><div>Load kW L2</div></div> <div><div></div><div>Load kW L3</div></div>			

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Subgroup: HMI Settings

Main Screen Line 1

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	RPM/PF/Run Hours/ATT/AIN1 [-]		
Default value	PF	Alternative config	NO
Step	[-]		
Comm object	13346	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
This setpoint adjusts line 1 on Mains screen.			

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Main Screen Line 2

Setpoint group	Basic settings	Related FW	1.8.0
Range [units]	RPM/PF/Run Hours/ATT/AIN1 [-]		
Default value	RPM	Alternative config	NO
Step	[-]		
Comm object	14628	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
This setpoint adjusts line 2 on Mains screen.			

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Group: Engine settings

Subgroup: Starting