

**Fuel Solenoid**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Diesel / Gas [-]		
Default value	Diesel	Alternative config	NO
Step	[-]		
Comm object	9100	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Determines behavior of the Binary output <b>FUEL SOLENOID (PAGE 569)</b>			
Diesel:	Output closes before binary output <b>STARTER (PAGE 586)</b> . Lead of output is adjusted via setpoint <b>Fuel Solenoid Lead (page 198)</b> . The output opens if Emergency Stop comes or gen-set is stopped and in pause between repeated starts.		
Gas: (Gaseous)	Output closes together with binary output <b>IGNITION (PAGE 579)</b> if RPM is over the 30 RPM (fixed value). Output opens after stop command or in pause between repeated start.		

[◀ back to List of setpoints](#)

**Cranking Attempts**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	1 .. 10 [-]		
Default value	3	Alternative config	NO
Step	1		
Comm object	8255	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Maximal number of cranking attempts.			

[◀ back to List of setpoints](#)

## Maximum Cranking Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	1 .. 255 [s]		
Default value	5 s	Alternative config	NO
Step	1 s		
Comm object	8256	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Maximum time limit of cranking time.			
<div><div>IMPORTANT: There is a protection against broken pinion on starter. In case that there are no RPM after 5 seconds of starting, cranking is interrupted and cranking fail pause follows.</div></div>			

[back to List of setpoints](#)

## Cranking Fail Pause

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	5 .. 60 [s]		
Default value	8 s	Alternative config	NO
Step	1 s		
Comm object	8257	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Pause between <b>Cranking Attempts (page 189)</b> . <b>PRESTART (PAGE 582)</b> output is active in this pause until Cranking Fail Pause elapses.			

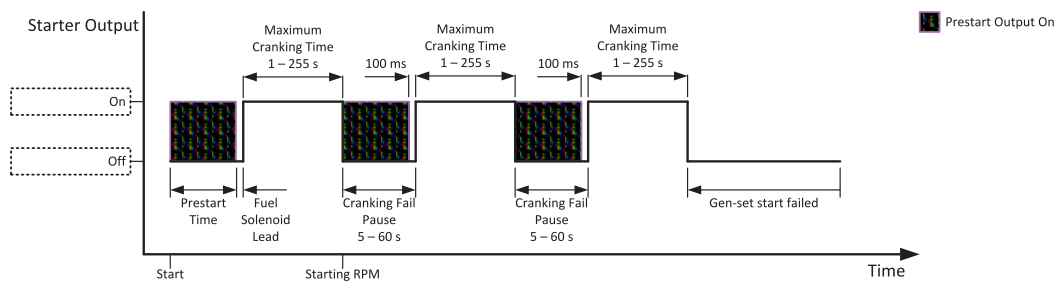
[back to List of setpoints](#)

## Prestart Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 600 [s]		
Default value	2 s	Alternative config	NO
Step	1 s		
Comm object	8394	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		

### Description

Time of closing of the **PRESTART (PAGE 582)** output prior to the engine start. Set to zero if you want to leave the output **PRESTART (PAGE 582)** open.



### Image 9.1 Prestart Time

 **back to List of setpoints**

## Starting RPM

<b>Setpoint group</b>	Engine settings	<b>Related FW</b>	1.8.0
<b>Range [units]</b>	5 .. 50 [%]		
<b>Default value</b>	25%	<b>Alternative config</b>	NO
<b>Step</b>	1 % of <b>Nominal RPM</b> (page 181)		
<b>Comm object</b>	8254	<b>Related applications</b>	AMF, MRS
<b>Config level</b>	Advanced		
<b>Setpoint visibility</b>	Always		

### Description

This setpoint defines the “firing” speed level as percent value of the **Nominal RPM (page 181)**. If this level is exceeded the engine is considered as started.

 **back to List of setpoints**

## Starting Oil Pressure

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Disabled / 0,1 .. 10,0 [bar]		
Default value	4,5 bar	Alternative config	NO
Step	0,1 bar		
Comm object	9681	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Oil pressure limit for starting. The controller will stop cranking ( <b>STARTER (PAGE 586)</b> goes OFF) if the oil pressure rises above this limit.			
Option Disabled - when this option is selected, Oil Pressure value (value from CU analog Oil Pressure, value from ECU analog Oil pressure and state of binary input Oil Pressure) is not used for disengagement of starter and for engine running evaluation.			
IMPORTANT: Value from analog input has higher priority than value from ECU.			

[back to List of setpoints](#)

## Glow Plugs Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. Prestart Time (page 191) [s]		
Default value	0 s	Alternative config	NO
Step	1 s		
Comm object	14412	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
This setpoint defines the time before starting when logical binary output <b>GLOW PLUGS (PAGE 576)</b> will be close.			

[back to List of setpoints](#)

## Idle RPM

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	100 .. 4000 [RPM]		
Default value	900 RPM	Alternative config	NO
Step	1 RPM		
Comm object	9946	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
This setpoint adjusts idle speed of engine.			

[back to List of setpoints](#)

## Subgroup: Choke

## Choke Function

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Disabled /Fixed Time / Temp Based [-]		
Default value	Disabled	Alternative config	NO
Step	[-]		
Comm object	15717	Related applications	MRS. AMF
Config level	Advanced		
Setpoint visibility	Only when LBO <b>CHOKE (PAGE 564)</b> is configured.		
Description			
This setpoint defines choke function behavior.			
Disabled	Choke function is disabled and logical binary output <b>CHOKE (PAGE 564)</b> is activated under no circumstances.		
Fixed Time	Choke time is fixedly defined by <b>Choke Time (page 193)</b> setpoint.		
Temp Based	Choke time is calculated using actual engine (coolant) temperature. Setpoints <b>Choke Start Temp (page 194)</b> and <b>Choke Increment (page 195)</b> are taken into consideration.		

[back to List of setpoints](#)

## Choke Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0–3600 [s]		
Default value	0 s	Alternative config	NO
Step	1 s		
Comm object	13011	Related applications	MRS. AMF
Config level	Advanced		
Setpoint visibility	Only when LBO <b>CHOKE (PAGE 564)</b> is configured and setpoint <b>Choke Function (page 193)</b> = Fixed Time.		
Description			
Defines time logical binary output <b>CHOKE (PAGE 564)</b> is activated for when fixed time is used. When setpoint <b>Choke Function (page 193)</b> is set to <i>Temp Based</i> value, <i>Choke Time</i> value have no effect.			
<i><b>Note:</b> If setpoint <b>Choke Lead (page 197)</b> is set to nonzero value, total time the <b>CHOKE</b> output is activated still matches value set by <b>Choke Time</b> setpoint. This mean <b>Choke Time</b> should be longer than <b>Choke Lead</b> to ensure expected <b>Choke</b> behavior.</i>			

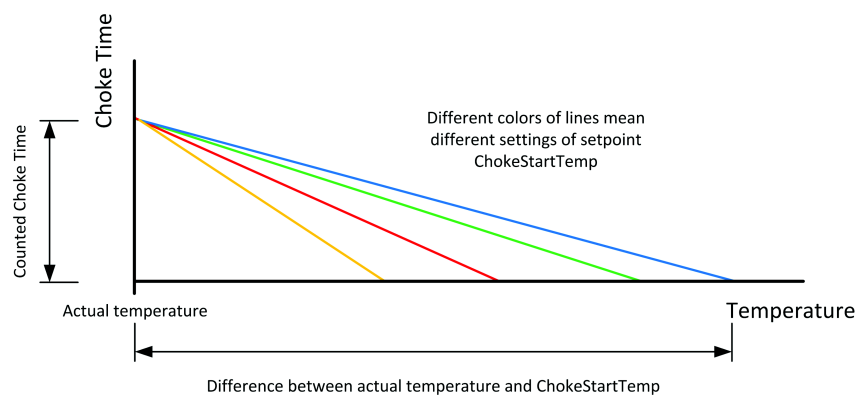
[back to List of setpoints](#)

**Choke Start Temp**

<b>Setpoint group</b>	Engine settings	<b>Related FW</b>	1.8.0
<b>Range [units]</b>	-20,0 .. 80,0 [°C]		
<b>Default value</b>	0,0 °C	<b>Alternative config</b>	NO
<b>Step</b>	0,1 °C		
<b>Comm object</b>	15716	<b>Related applications</b>	MRS. AMF
<b>Config level</b>	Advanced		
<b>Setpoint visibility</b>	Only when LBO CHOKE (PAGE 564) is configured and setpoint <b>Choke Function</b> (page 193) = Temp Based.		

**Description**

This setpoint adjust the base temperature for Choke function. When temperature will be higher than this setpoint, Choke Time will be always 0. When temperature will be lower than this setpoint, Choke Time will be calculated by curve adjusted via setpoint **Choke Increment** (page 195). When setpoint **Choke Function** (page 193) is set to *Fixed Time* value, setpoint *Choke Start Temp* has no effect.



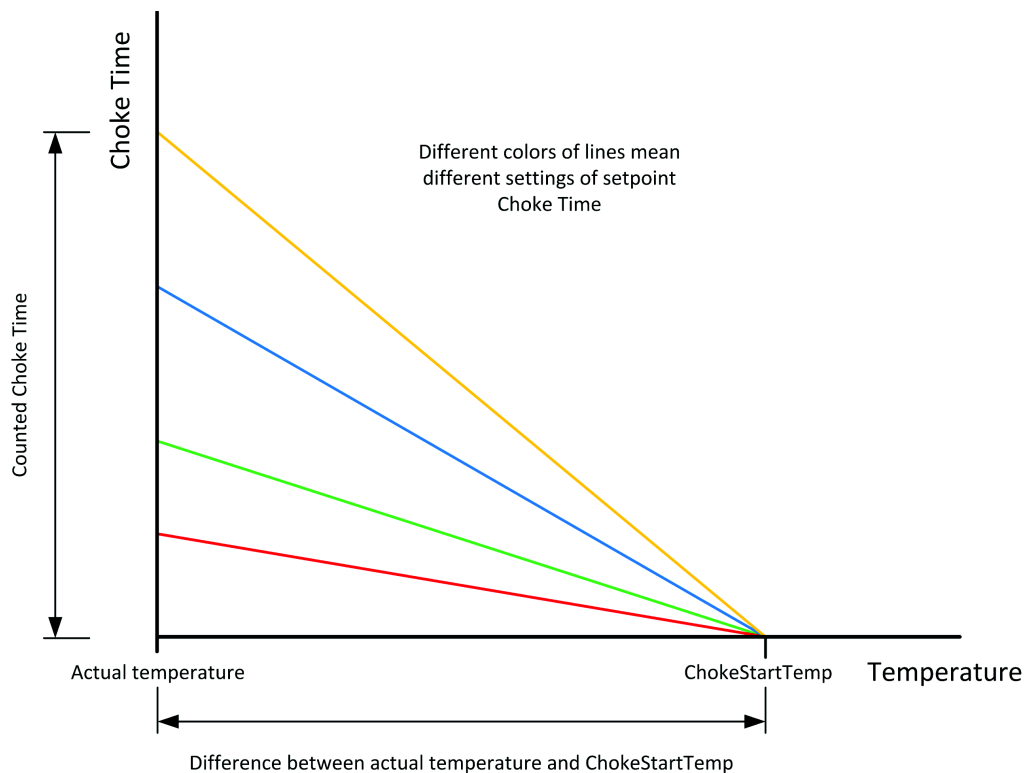
[back to List of setpoints](#)

## Choke Increment

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0,00 .. 20,00 [s/°C]		
Default value	0,00 s/°C	Alternative config	NO
Step	0,01 s/°C		
Comm object	15715	Related applications	MRS. AMF
Config level	Advanced		
Setpoint visibility	Only when LBO CHOKE (PAGE 564) is configured and setpoint Choke Function (page 193) = Temp Based.		

### Description

This setpoint adjust the maximal time of activation of binary output **CHOKE** (PAGE 564). Calculated time depends on engine (coolant) temperature. Setpoint adjust curve which is used for calculating actual Choke Time. When setpoint **Choke Function** (page 193) is set to *Fixed Time* value, setpoint *Choke Increment* has no effect.



**Note:** If setpoint **Choke Lead** (page 197) is set to nonzero value, total time the **CHOKE** output is activated still matches calculated value (based on actual temperature and setpoints **Choke Increment** and **Choke Start Temp** (page 194)) This mean that adjusted parameters should ensure that calculated **Choke Time** will be longer than **Choke Lead** to ensure expected **Choke** behavior.

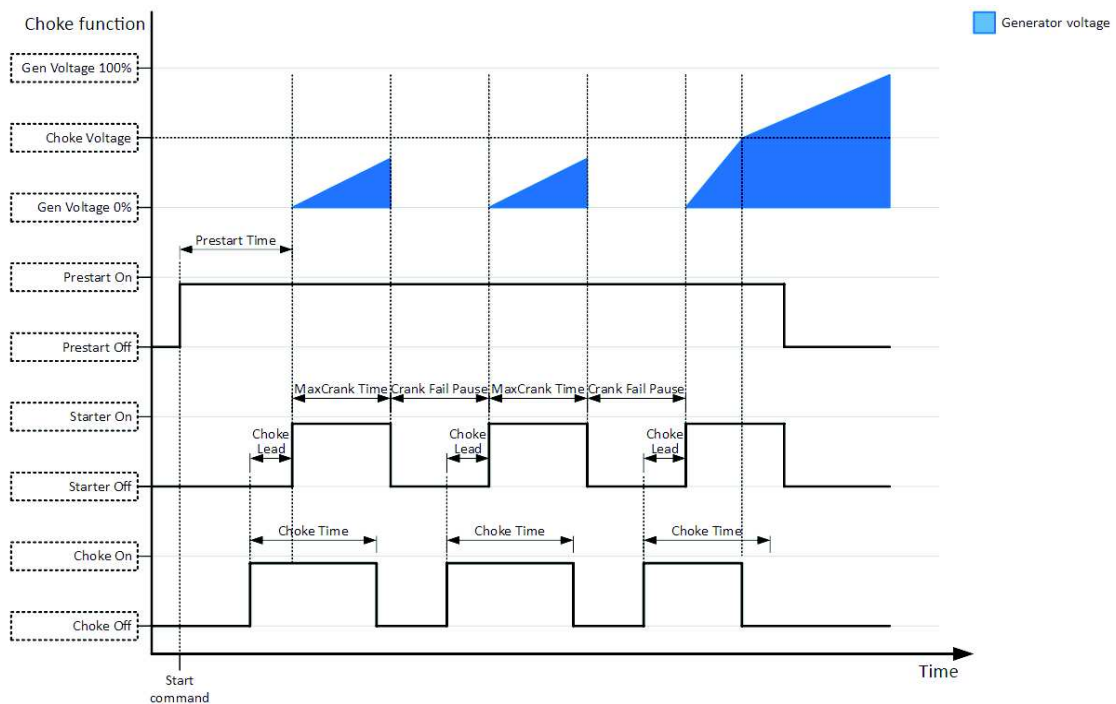
🔍 back to List of setpoints

## Choke Voltage

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Disabled / 1–100 [%]		
Default value	Disabled	Alternative config	NO
Step	1 %		
Comm object	15718	Related applications	MRS. AMF
Config level	Advanced		
Setpoint visibility	Only when LBO CHOKE (PAGE 564) is configured.		

### Description

This setpoint adjust threshold level for deactivation of **CHOKE (PAGE 564)** binary output. When generator voltage is higher than this level, then logical binary output CHOKE is deactivated. In multiphase system it is sufficient to deactivate CHOKE LBO when at least one voltage crosses this threshold. In case setpoint *Choke Voltage* is set to *Disabled* value, no voltage is taken into account and CHOKE LBO isn't deactivated on the voltage basis.



[back to List of setpoints](#)



## Choke Lead

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. Prestart Time [s]		
Default value	0 s	Alternative config	NO
Step	1 s		
Comm object	15774	Related applications	MRS. AMF
Config level	Advanced		
Setpoint visibility	Only when LBO <b>CHOKE (PAGE 564)</b> is configured.		
Description			
This setpoint adjust the lead of logical binary output <b>CHOKE</b> . <b>CHOKE (PAGE 564)</b> is activated before logical binary output <b>STARTER (PAGE 586)</b> .			
<i><b>Note:</b> In case Choke Lead is longer than 8 s (cranking fail pause), Choke Lead will be limited to 8 s (cranking fail pause time). This limitation is applied only for cranking fail pause, Choke Lead in Prestart stays unchanged.</i>			

 [back to List of setpoints](#)

## Subgroup: Starting Timers

## Fuel Solenoid Lead

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0,0 .. 25,0 [s]		
Default value	0,5 s	Alternative config	NO
Step	0,1 s		
Comm object	10525	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		

Description

Delay between **FUEL SOLENOID (PAGE 569)** and **STARTER (PAGE 586)** logical binary inputs.**FUEL SOLENOID (PAGE 569)** is closed before **STARTER (PAGE 586)**. Lead time is adjusted via this setpoint.

The diagram illustrates the timing sequence for a fuel solenoid lead during engine cranking attempts. The vertical axis represents the Starter Output (Close/Open) and the Fuel Solenoid Lead (Open/Close). The horizontal axis represents Time, starting from the Start point.

Key events and intervals shown:

- Prestart Time:** The time interval between the Start point and the first Fuel Solenoid Lead.
- Fuel Solenoid Lead:** The time interval between the Starter Output (Close) and the Fuel Solenoid Lead (Open).
- Maximum Cranking Time:** The time interval between the Fuel Solenoid Lead (Open) and the Cranking Fail Pause.
- Cranking Fail Pause:** The time interval between the Cranking Fail event and the next Fuel Solenoid Lead.
- Gen-set start failed (Shutdown Start Fail):** The time interval between the last Fuel Solenoid Lead and the Shutdown Start Fail event.

Legend:

- Red square: Fuel Solenoid is open (LBO Fuel Solenoid is closed)

Image 9.2 Fuel Solenoid Lead

Note: LBO PRESTART (PAGE 582) goes to logical zero when Fuel Solenoid Lead goes to logical one.

Note: This setpoint is used only for diesel Fuel Solenoid (page 189)

🔍 back to List of setpoints

## Idle Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 600 [s]		
Default value	12 s	Alternative config	NO
Step	1 s		
Comm object	9097	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Idle Time delay starts when RPM exceeds <b>Starting RPM (page 191)</b> . Start fail is detected when during Idle state RPM decreases below 2 RPM.			
The output <b>IDLE/NOMINAL (PAGE 579)</b> remains inactive during the idle period. Binary output Idle/Nominal opens during Cooling period again. This output can be used for switching the governor between idle and			

nominal speed.

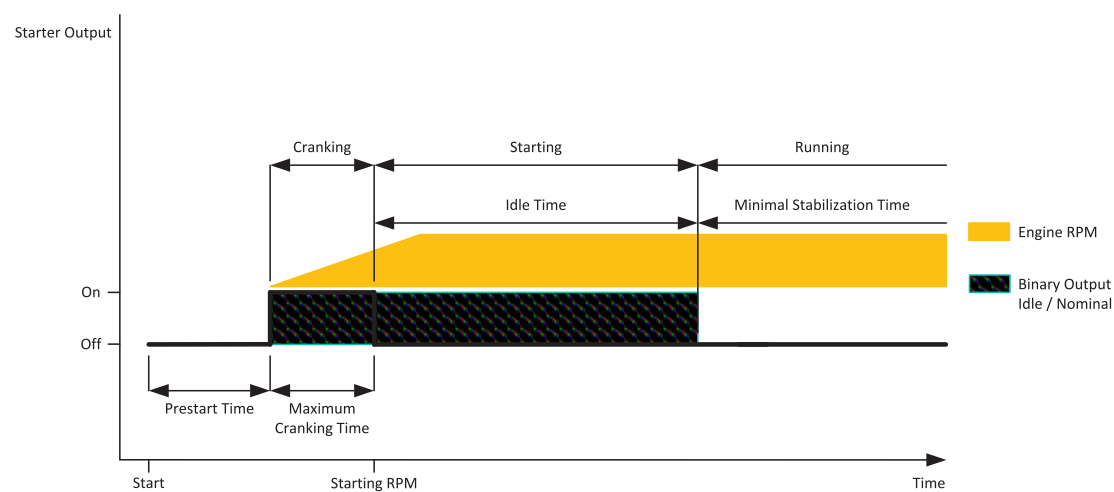


Image 9.3 Idle Time 1

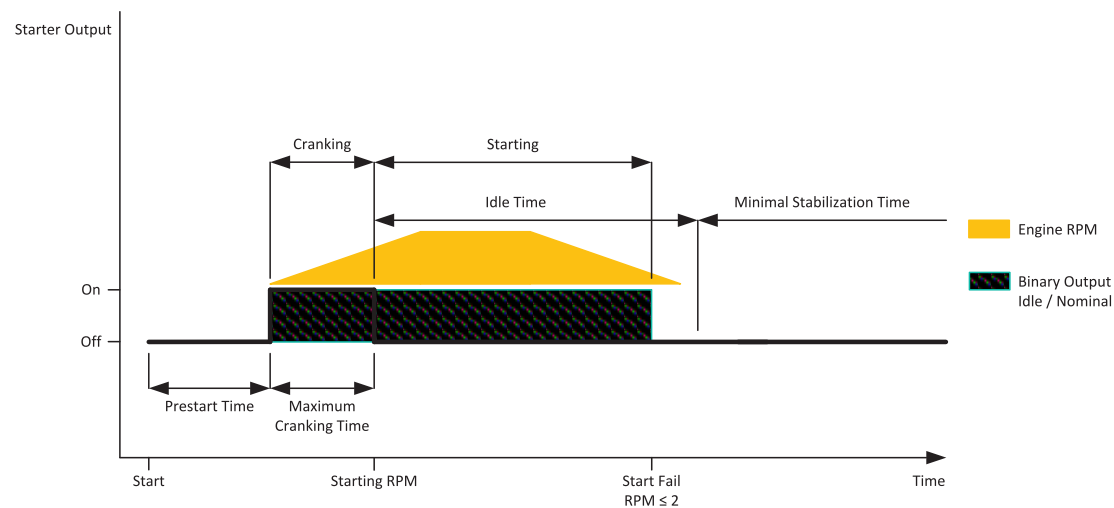


Image 9.4 Idle Time 2

[back to List of setpoints](#)

## Minimal Stabilization Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	1 .. Maximal Stabilization Time (page 201) [s]		
Default value	2 s	Alternative config	NO
Step	1 s		
Comm object	8259	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		

### Description

When the gen-set has been started and the idle timer has elapsed, the controller will wait for a period adjusted by this setpoint before closing GCB, even if the generator voltage and frequency are already in limits.

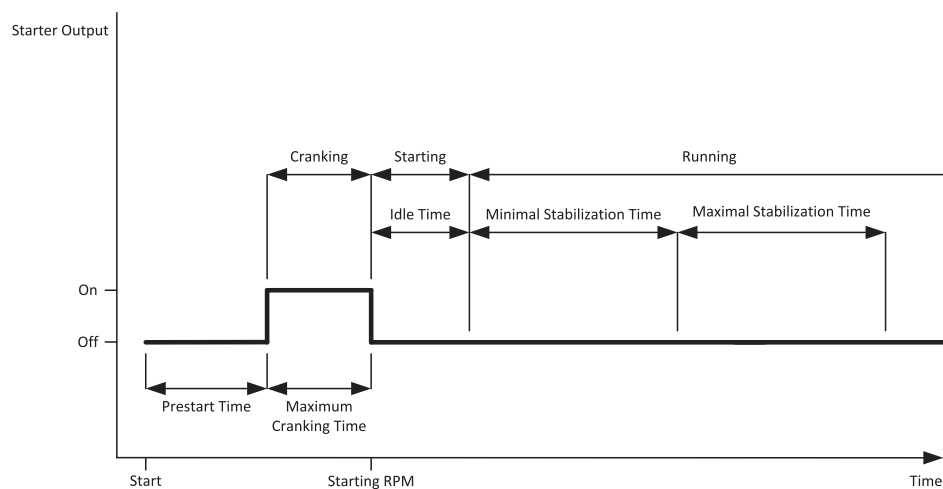


Image 9.5 Minimal Stabilization Time

[back to List of setpoints](#)

## Maximal Stabilization Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Minimal Stabilization Time (page 200) .. 300 [s]		
Default value	10 s	Alternative config	NO
Step	1 s		
Comm object	8313	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		

### Description

When the gen-set has been started and the idle timer has elapsed, the generator voltage and frequency must get within limits within this period of time, otherwise an appropriate shutdown alarm (generator voltage and/or frequency) is issued.

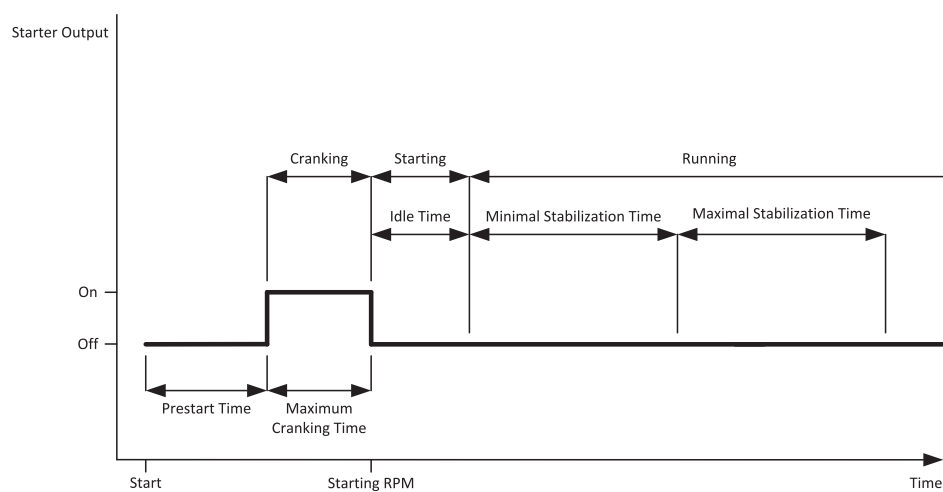


Image 9.6 Maximal Stabilization Time

[back to List of setpoints](#)

## Protection Hold Off

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0,0 .. 300,0 [s]		
Default value	5,0 s	Alternative config	YES
Step	0,1 s		
Comm object	10023	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		

### Description

During the start of the gen-set, some engine protections have to be blocked (e.g. Oil pressure). The protections are unblocked after the Protect Hold Off. The time starts after reaching Starting RPM.

[back to List of setpoints](#)

**Sd Ventilation Time**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 60 [s]		
Default value	5 s	Alternative config	NO
Step	1 s		
Comm object	9695	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
In case <b>Fuel Solenoid (page 189)</b> is set to GAS, the Sd Ventilation Time adjusts the time of the starter to be switched on for engine pre-ventilation in the case of a first start attempt after shutdown or controller switch-on.			

 [back to List of setpoints](#)

**Subgroup: Stopping****Cooling Speed**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Idle / Nominal [-]		
Default value	Nominal	Alternative config	NO
Step	[-]		
Comm object	10046	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Selects the function of the binary output <b>IDLE/NOMINAL (PAGE 579)</b> during engine cooling state.			
Idle	Cooling is executed at Idle speed and generator protections are switched off.		
Nominal	Cooling is executed at Nominal speed and generator protections are active.		
<b>Note:</b> When ECU is connected the predefined value 900 RPM for Idle speed is requested.			
<b>Note:</b> Binary output <b>IDLE/NOMINAL (PAGE 579)</b> must be configured and connected to speed governor. Engine Idle speed must be adjusted on speed governor.			

 [back to List of setpoints](#)

## Subgroup: Stopping Timers

## Cooling Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 3 600 [s]		
Default value	30 s	Alternative config	NO
Step	1 s		
Comm object	8258	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Runtime of the unloaded gen-set to cool the engine before stop.			

🔍 back to List of setpoints

## Stop Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 600 [s]		
Default value	60 s	Alternative config	NO
Step	1 s		
Comm object	9815	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		

## Description

Under normal conditions the engine must certainly stop within this period after the **FUEL SOLENOID (PAGE 569)** has been de-energized and the **STOP SOLENOID (PAGE 587)** energized. The Stop Solenoid output is deactivated 12 s after last running engine indication went off.

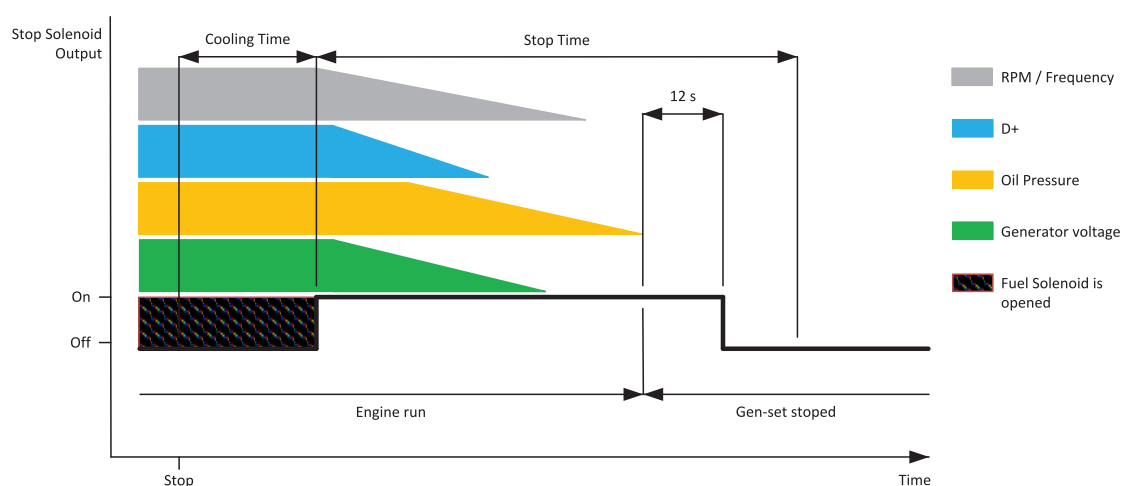
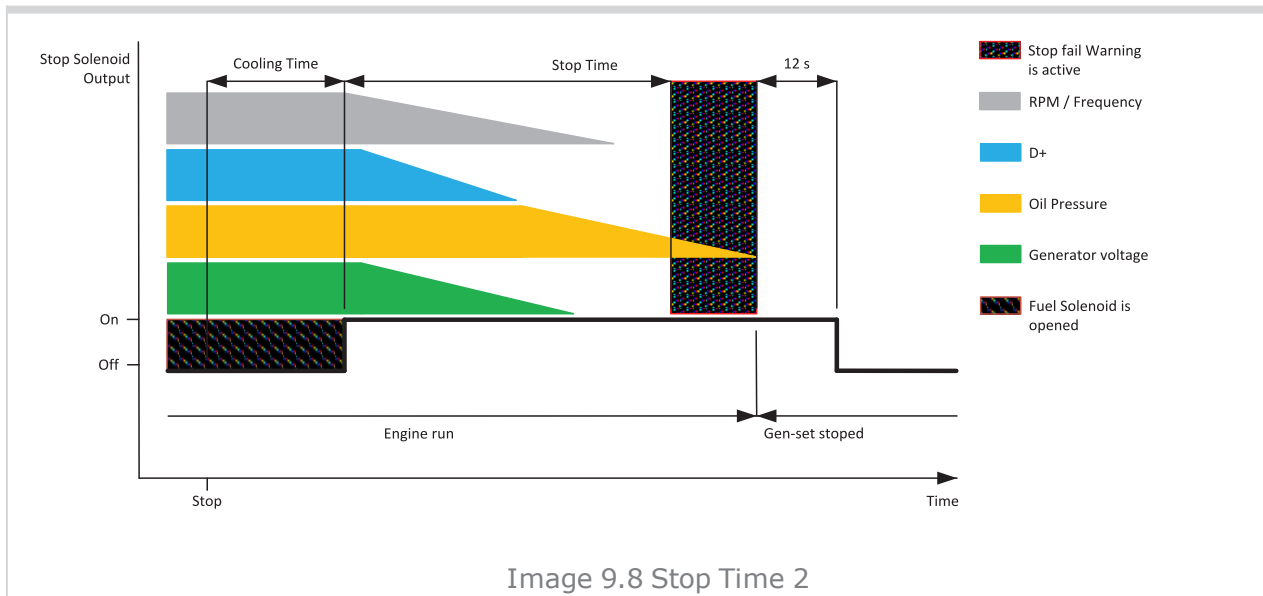


Image 9.7 Stop Time 1



[back to List of setpoints](#)

### After Cooling Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 3 600 [s]		
Default value	180 s	Alternative config	NO
Step	1 s		
Comm object	8662	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Runtime of engine after cooling pump. Binary output Cooling pump is closed when the engine starts and opens AfterCool time delayed after gen-set stops.			

[back to List of setpoints](#)

### Subgroup: D+ Function

#### D+ Function

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Enabled / ChargeFail / Disabled [-]		
Default value	Disabled	Alternative config	NO
Step	[-]		
Comm object	9683	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Behavior of D+ terminal.			
Enabled	The D+ terminal is used for both functions – “running engine” detection and charge fail		



ChargeFail

The D+ terminal is used for charge fail detection only

Disabled

The D+ terminal is not used.

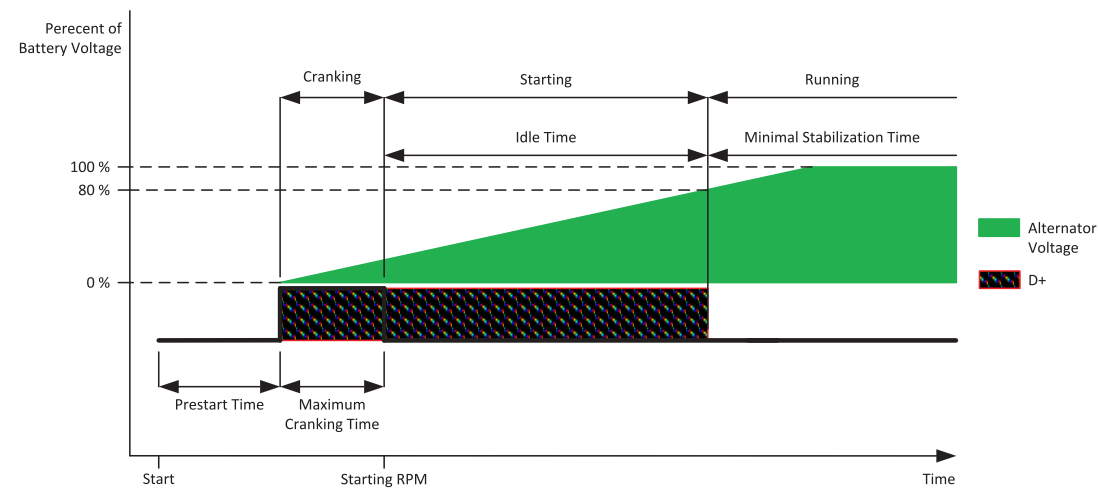


Image 9.9 D+ Function 1

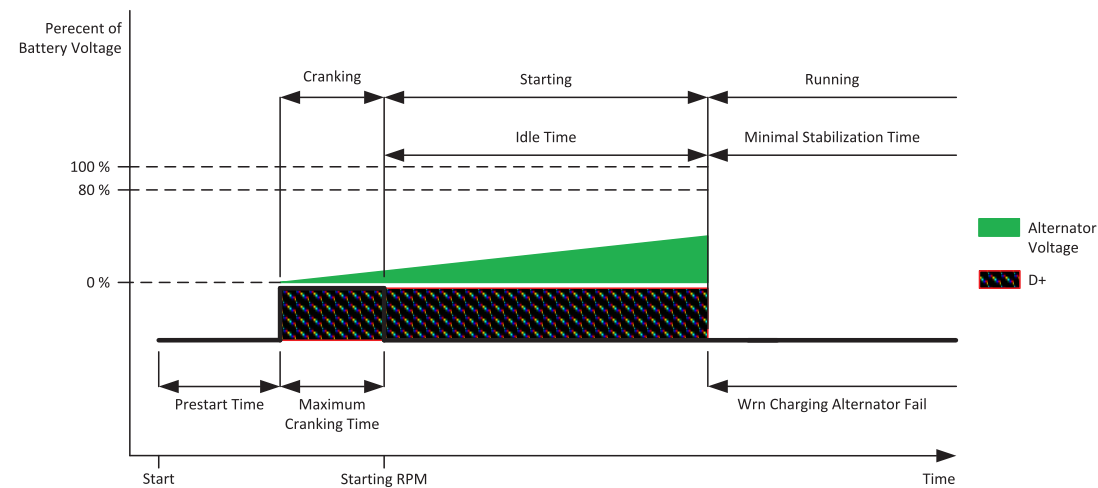


Image 9.10 D+ Function 2

[back to List of setpoints](#)

**D+ Threshold**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0..100 [%]		
Default value	80 %	Alternative config	NO
Step	1 %		
Comm object	14959	Related applications	MRS. AMF
Config level	Advanced		
Setpoint visibility	Only if setpoint <b>D+ Function (page 204)</b> is not set to <i>Disabled</i> value.		
Description			
This setpoint adjusts threshold level for D+ function.			

 [back to List of setpoints](#)

**D+ Delay**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	1..255 [s]		
Default value	1 s	Alternative config	NO
Step	1 s		
Comm object	14960	Related applications	MRS. AMF
Config level	Advanced		
Setpoint visibility	Only if setpoint <b>D+ Function (page 204)</b> is not set to <i>Disabled</i> value.		
Description			
This setpoint adjusts delay for D+ function. This delay is used for: <ul style="list-style-type: none"><li>▶ Alarm Charging Alternator Fail.</li><li>▶ For engine running condition - disengagement of starter</li></ul>			

 [back to List of setpoints](#)

**D+ Alarm Type**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	No Protec/Wrn/Sd [-]		
Default value	Wrn	Alternative config	NO
Step	[-]		
Comm object	15751	Related applications	MRS. AMF
Config level	Advanced		
Setpoint visibility	Only if setpoint <b>D+ Function (page 204)</b> is not set to <i>Disabled</i> value.		
Description			
This setpoint adjusts type of alarm Charging Alternator Fail.			

 [back to List of setpoints](#)

## Subgroup: Engine Protections

## Overspeed Sd

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Underspeed Sd (page 207) .. 200 [%]		
Default value	115%	Alternative config	NO
Step	1 % of Nominal RPM (page 181)		
Comm object	8263	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Threshold for over speed protection. Relative to the nominal speed.			

[back to List of setpoints](#)

## Underspeed Sd

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. Overspeed Sd (page 207) [%]		
Default value	25%	Alternative config	NO
Step	1 % of Nominal RPM (page 181)		
Comm object	8260	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Threshold for underspeed protection. Relative to the nominal speed.			

[back to List of setpoints](#)

## Overspeed Overshot

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 50 [%]		
Default value	20%	Alternative config	NO
Step	1 % of Nominal RPM (page 181)		
Comm object	14107	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
This setpoint rise the upper limit of overspeed protection for the time which is defined in setpoint <b>Overspeed Overshot Period (page 208)</b> . In this time the upper limit of protection is <b>Overspeed Sd (page 207) + Overspeed Overshoot</b> .			

[back to List of setpoints](#)

**Overspeed Overshot Period**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 255 [s]		
Default value	5 s	Alternative config	NO
Step	1 s		
Comm object	14108	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint <b>Overspeed Overshot (page 207)</b>		
Description			
Time for which is <b>Overspeed Overshot (page 207)</b> active. The timer starts in the same time when starter starts.			
<i><b>Note:</b> The setpoint is visible only, if <b>Overspeed Overshot (page 207)</b> is greater than 0.</i>			

[back to List of setpoints](#)

**Oil Pressure Wrn**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by analog sensor curve		
Default value	the value is defined by analog sensor curve	Alternative config	NO
Step	the step is defined by analog sensor curve		
Comm object	12895	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical analog input <b>OIL PRESSURE (PAGE 623)</b> is configured		
Description			
Warning or history threshold level for <b>OIL PRESSURE (PAGE 623)</b> .			

[back to List of setpoints](#)

**Oil Pressure Sd**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by analog sensor curve		
Default value	the value is defined by analog sensor curve	Alternative config	NO
Step	the step is defined by analog sensor curve		
Comm object	12779	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical analog input <b>OIL PRESSURE (PAGE 623)</b> is configured		
Description			
Shutdown threshold level for <b>OIL PRESSURE (PAGE 623)</b> .			

[back to List of setpoints](#)

**Oil Pressure Delay**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 900 [s]		
Default value	3 s	Alternative config	NO
Step	1 s		
Comm object	14341	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical analog input <b>OIL PRESSURE (PAGE 623)</b> is configured or logical binary input <b>OIL PRESSURE (PAGE 532)</b> is configured		
Description			
Delay for <b>OIL PRESSURE (PAGE 623)</b> .			

[back to List of setpoints](#)

**ECU Oil Pressure Wrn**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by ECU sensor curve		
Default value	the value is defined by ECU sensor curve	Alternative config	YES
Step	the step is defined by ECU sensor curve		
Comm object	14426	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if ECU is configured		
Description			
Warning threshold level for Oil pressure which is send from ECU.			

[back to List of setpoints](#)

**ECU Oil Pressure Sd**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by ECU sensor curve		
Default value	the value is defined by ECU sensor curve	Alternative config	NO
Step	the step is defined by ECU sensor curve		
Comm object	14425	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if ECU is configured		
Description			
Shutdown threshold level for Oil pressure which is send from ECU.			

[back to List of setpoints](#)

**ECU Oil Pressure Delay**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 900 [s]		
Default value	3 s	Alternative config	NO
Step	1 s		
Comm object	14427	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if ECU is configured		
Description			
Delay for Oil pressure which is send from ECU.			

[back to List of setpoints](#)

**Coolant Temperature Wrn**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by analog sensor curve		
Default value	the value is defined by analog sensor curve	Alternative config	NO
Step	the step is defined by analog sensor curve		
Comm object	12896	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical analog input <b>COOLANT TEMP (PAGE 620)</b> is configured		
Description			
Warning or history threshold level for <b>COOLANT TEMP (PAGE 620)</b> .			

[back to List of setpoints](#)

**Coolant Temperature Sd**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by analog sensor curve		
Default value	the value is defined by analog sensor curve	Alternative config	NO
Step	the step is defined by analog sensor curve		
Comm object	12780	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical analog input <b>COOLANT TEMP (PAGE 620)</b> is configured		
Description			
Shutdown or BOC threshold level for <b>COOLANT TEMP (PAGE 620)</b> .			

[back to List of setpoints](#)

**Coolant Temperature Delay**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 900 [s]		
Default value	5 s	Alternative config	NO
Step	1 s		
Comm object	14342	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical analog input <b>COOLANT TEMP (PAGE 620)</b> is configured or logical binary input <b>COOLANT TEMP (PAGE 523)</b> is configured		
Description			
Delay for <b>COOLANT TEMP (PAGE 620)</b> .			

[back to List of setpoints](#)

**ECU Coolant Temperature Wrn**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by ECU sensor curve		
Default value	the value is defined by ECU sensor curve	Alternative config	NO
Step	the step is defined by ECU sensor curve		
Comm object	14429	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if ECU is configured		
Description			
Warning threshold level for Coolant temperature which is send from ECU.			

[back to List of setpoints](#)

**ECU Coolant Temperature Sd**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by ECU sensor curve		
Default value	the value is defined by ECU sensor curve	Alternative config	NO
Step	the step is defined by ECU sensor curve		
Comm object	14428	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if ECU is configured		
Description			
Shutdown or BOC threshold level for Coolant temperature which is send from ECU.			

[back to List of setpoints](#)

## ECU Coolant Temperature Delay

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 900 [s]		
Default value	5 s	Alternative config	NO
Step	1 s		
Comm object	14430	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if ECU is configured		
Description			
Delay for Coolant temperature which is send from ECU.			

🔍 back to List of setpoints

## Temperature Switch On

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is define by sensor curve (analog or ECU)		
Default value	the value is defined by sensor curve (analog or ECU)	Alternative config	NO
Step	the step is defined by sensor curve (analog or ECU)		
Comm object	8688	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical binary output <b>TEMPERATURE SWITCH (PAGE 589)</b> is configured.		

### Description

Threshold level for switching the binary output **TEMPERATURE SWITCH (PAGE 589)** on.

**Note:** Value from analog input has higher priority than ECU.

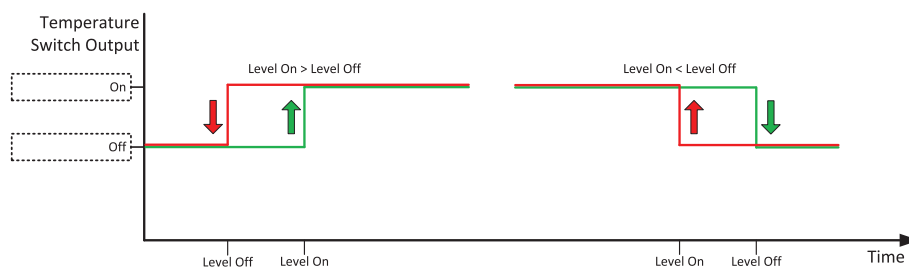


Image 9.11 Temperature Switch

🔍 back to List of setpoints



## Temperature Switch Off

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is define by sensor curve (analog or ECU)		
Default value	the value is defined by sensor curve (analog or ECU)	Alternative config	NO
Step	the step is defined by sensor curve (analog or ECU)		
Comm object	8689	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical binary output <b>TEMPERATURE SWITCH (PAGE 589)</b> is configured.		

### Description

Threshold level for switching the binary output **TEMPERATURE SWITCH (PAGE 589)** off.

**Note:** Value from analog input has higher priority than ECU.

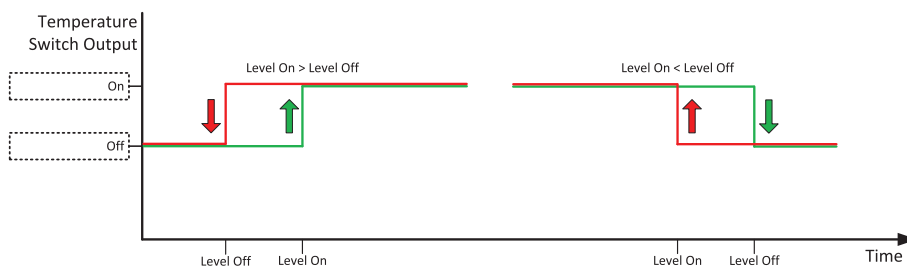


Image 9.12 Temperature Switch

[back to List of setpoints](#)

## Coolant Temperature Low Wrn

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by analog sensor curve		
Default value	the value is defined by analog sensor curve	Alternative config	YES
Step	the step is defined by analog sensor curve		
Comm object	9684	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Visible only if the logical analog input <b>COOLANT TEMP (PAGE 620)</b> is configured		
Description			
Threshold level for lower limit of <b>COOLANT TEMP (PAGE 620)</b> .			

[back to List of setpoints](#)

**Coolant Temperature Low Delay**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 900 [s]		
Default value	5 s	Alternative config	YES
Step	1 s		
Comm object	10270	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Visible only if the logical analog input <b>COOLANT TEMP (PAGE 620)</b> is configured		
Description			
Delay for <b>Coolant Temperature Low Wrn (page 213)</b> .			

 [back to List of setpoints](#)

**Fuel Level Wrn**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by analog sensor curve		
Default value	the value is defined by analog sensor curve	Alternative config	NO
Step	the step is defined by analog sensor curve		
Comm object	12897	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical analog input <b>FUEL LEVEL (PAGE 621)</b> is configured		
Description			
Warning or history threshold level for <b>FUEL LEVEL (PAGE 621)</b> .			

 [back to List of setpoints](#)

**Fuel Level Sd**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by analog sensor curve		
Default value	the value is defined by analog sensor curve	Alternative config	NO
Step	the step is defined by analog sensor curve		
Comm object	12898	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical analog input <b>FUEL LEVEL (PAGE 621)</b> is configured		
Description			
Shutdown or BOC threshold level for <b>FUEL LEVEL (PAGE 621)</b> .			

 [back to List of setpoints](#)

**Fuel Level Delay**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 900 [s]		
Default value	10 s	Alternative config	NO
Step	1 s		
Comm object	14343	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical analog input <b>FUEL LEVEL (PAGE 621)</b> is configured or logical binary input <b>FUEL LEVEL (PAGE 527)</b> is configured		
Description			
Delay for <b>FUEL LEVEL (PAGE 621)</b> .			

[back to List of setpoints](#)

**ECU Fuel Level Wrn**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by ECU sensor curve		
Default value	the value is defined by ECU sensor curve	Alternative config	NO
Step	the step is defined by ECU sensor curve		
Comm object	14432	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if ECU is configured		
Description			
Warning threshold level for Fuel level which is send from ECU.			

[back to List of setpoints](#)

**ECU Fuel Level Sd**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	the range is defined by ECU sensor curve		
Default value	the value is defined by ECU sensor curve	Alternative config	NO
Step	the step is defined by ECU sensor curve		
Comm object	14431	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if ECU is configured		
Description			
Shutdown or BOC threshold level for Fuel level which is send from ECU.			

[back to List of setpoints](#)

**ECU Fuel Level Delay**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 900 [s]		
Default value	10 s	Alternative config	NO
Step	1 s		
Comm object	14433	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if ECU is configured		
Description			
Delay for Fuel level which is send from ECU.			

[◀ back to List of setpoints](#)

**Fuel Tank Volume**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 10 000 [l]		
Default value	200 l	Alternative config	YES
Step	1 l		
Comm object	11103	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Visible only if the logical analog input <b>FUEL LEVEL (PAGE 621)</b> is or ECU is configured		
Description			
Define a capacity of gen-set fuel tank.			

[◀ back to List of setpoints](#)

**Maximal Fuel Drop**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Disabled / 1 .. 50 [%/h]		
Default value	25 %/h	Alternative config	NO
Step	1%/h		
Comm object	12373	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Setpoint indicates the maximum allowable drop of fuel in fuel tank per running hour. When the engine is not running the maximal allowed fuel drop-off is preset to 5% of total tank volume per hour.			

[◀ back to List of setpoints](#)

## Maximal Fuel Drop Delay

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 600 [s]		
Default value	5 s	Alternative config	NO
Step	s		
Comm object	14683	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
When the value of fuel drop per hour is higher than <b>Maximal Fuel Drop (page 216)</b> this delay stars count down. After count down of this delay alarm <b>Wrn Fuel Theft (page 646)</b> is activated.			

🔍 back to List of setpoints

## Fuel Pump On

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. Fuel Pump Off (page 218) [%]		
Default value	20 %	Alternative config	NO
Step	1 %		
Comm object	10100	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Visible only if the logical binary output <b>FUEL PUMP (PAGE 569)</b> is configured and logical binary input <b>FUEL PUMP ON/OFF (PAGE 527)</b> isn't configured		

### Description

Threshold level for switching the binary output **FUEL PUMP (PAGE 569)** on.

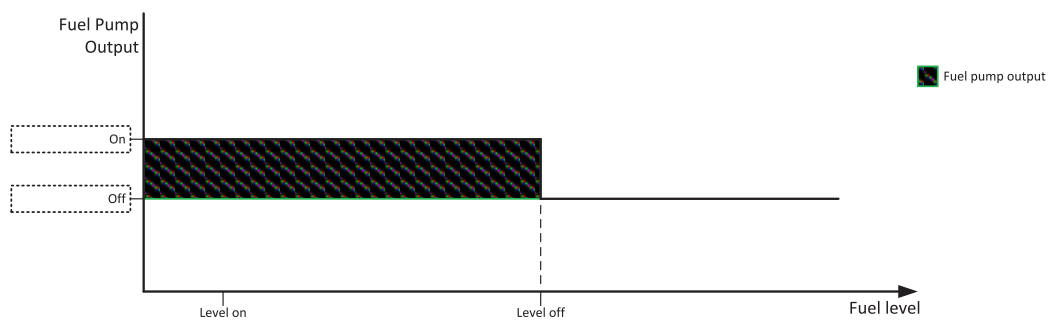


Image 9.13 Fuel Pump On

**IMPORTANT:** When binary input **FUEL PUMP ON/OFF (PAGE 527)** is configured then binary output **FUEL PUMP (PAGE 569)** is control by this binary input. Setpoints **Fuel Pump On** and **Fuel Pump Off (page 218)** are not evaluated!

**Note:** Value from analog input has higher priority than ECU.

**Note:** This setpoint is visible only if the logical binary output **FUEL PUMP (PAGE 569)** is configured.

🔍 back to List of setpoints

**Fuel Pump Off**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Fuel Pump On (page 217) .. 100 [%]		
Default value	90 %	Alternative config	NO
Step	1 %		
Comm object	10101	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Visible only if the logical binary output <b>FUEL PUMP (PAGE 569)</b> is configured and logical binary input <b>FUEL PUMP ON/OFF (PAGE 527)</b> isn't configured		

**Description**

Threshold level for switching the binary output **FUEL PUMP (PAGE 569)** off.

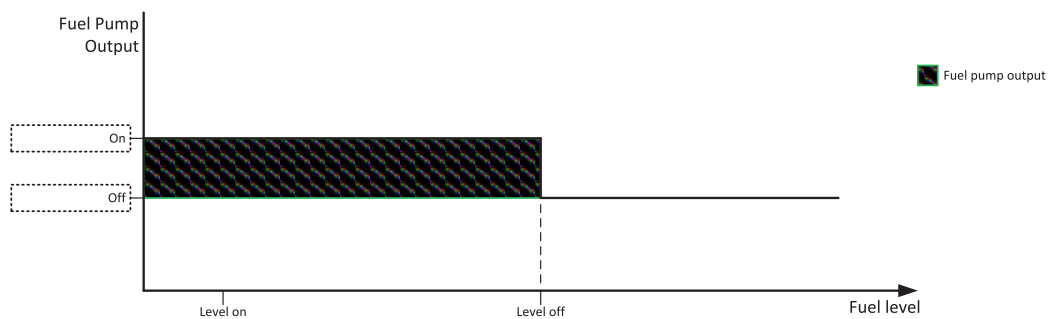


Image 9.14 Fuel Pump Off

**IMPORTANT:** When binary input **FUEL PUMP ON/OFF (PAGE 527)** is configured then binary output **FUEL PUMP (PAGE 569)** is control by this binary input. Setpoints **Fuel Pump On (page 217)** and **Fuel Pump Off** are not evaluated!

**Note:** Value from analog input has higher priority than ECU.

**Note:** This setpoint is visible only if the logical binary output **FUEL PUMP (PAGE 569)** is configured.

 [back to List of setpoints](#)

**Transfer Wrn Delay**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Disabled / 1 .. 60 [s]		
Default value	30 s	Alternative config	YES
Step	1 s		
Comm object	10685	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Visible only if the logical binary output <b>FUEL PUMP (PAGE 569)</b> is configured		
Description			
If the controller does not see the fuel increase during fuel transfer within this time alarm <b>Wrn Fuel Transfer Failed (page 659)</b> will be displayed and the <b>FUEL PUMP (PAGE 569)</b> will be turned off. Alarm <b>Wrn Fuel Transfer Failed (page 659)</b> will be displayed but this alarm becomes immediately inactive and it will be possible to delete this message by the Fault reset button. If the fault is deleted the controller will initiate the transfer again.			

[◀ back to List of setpoints](#)

**Subgroup: Maintenance****Maintenance Timer 1**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	-10 000 ... 9 999 [h] / Disabled		
Default value	1 000 h	Alternative config	NO
Step	1 h		
Comm object	11616	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Maintenance timer 1 counts down when engine is running. If reaches zero, an alarm appears, but the timer still counting down into negative values. When the value 10000 is set, than the Maintenance function is disabled and counter does not count. Counter value disappear from controllers statistics.			

[◀ back to List of setpoints](#)

**Maintenance Timer 2**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	-10 000 ... 9 999 [h] / Disabled		
Default value	1 000 h	Alternative config	NO
Step	1 h		
Comm object	11617	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Maintenance timer 2 counts down when engine is running. If reaches zero, an alarm appears, but the timer still counting down into negative values. When the value 10000 is set, than the Maintenance function is disabled and counter does not count. Counter value disappear from controllers statistics.			

[◀ back to List of setpoints](#)

**Maintenance Timer 3**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	-10 000 ... 9 999 [h] / Disabled		
Default value	1 000 h	Alternative config	NO
Step	1 h		
Comm object	11618	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Maintenance timer 3 counts down when engine is running. If reaches zero, an alarm appears, but the timer still counting down into negative values. When the value 10000 is set, than the Maintenance function is disabled and counter does not count. Counter value disappear from controllers statistics.			

[◀ back to List of setpoints](#)

**Subgroup: Battery Protections****Battery Undervoltage**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	8,0 V .. Battery Overvoltage (page 221) [V]		
Default value	18,0 V	Alternative config	NO
Step	0,1 V		
Comm object	8387	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Warning threshold for low battery voltage.			

[◀ back to List of setpoints](#)



**Battery Overvoltage**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Battery Undervoltage (page 220) .. 40,0 [V]		
Default value	36,0 V	Alternative config	NO
Step	0,1 V		
Comm object	9587	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Warning threshold for high battery voltage.			

 [back to List of setpoints](#)

**Battery <> Voltage Delay**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 600 [s]		
Default value	5 s	Alternative config	NO
Step	1 s		
Comm object	8383	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Delay for <b>Battery Undervoltage (page 220)</b> and <b>Battery Overvoltage (page 221)</b> protection.			

 [back to List of setpoints](#)

**Battery Charger Fail Delay**

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 15 [min]		
Default value	5 min	Alternative config	NO
Step	1 min		
Comm object	11374	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Conditioned with LBI <b>BATTERY CHARGER (PAGE 498)</b>		
Description			
Delay for LBI <b>BATTERY CHARGER (PAGE 498)</b> .			

 [back to List of setpoints](#)

## Low Battery Charging Cycle

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	Disabled / 1–240 [min]		
Default value	Disabled	Alternative config	NO
Step	1 min		
Comm object	15766	Related applications	MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
<p>This setpoint enables battery charging and defines the time gen-set is running for to recharge battery. If battery charging is enabled and battery undervoltage is detected for more than 5 minutes, gen-set is started and will run for time defined in setpoint <i>Low Battery Charging Cycle</i>.</p> <p>Battery charging is only initiated in AUT mode when no Shutdown alarm and Fuel Level alarm is active. If there is battery undervoltage detected again after previous Charging Cycle is finished (and undervoltage lasts more than 5 minutes) next Charging Cycle is initiated.</p> <p>If controller is switched to MAN mode during battery charging, gen-set stay running regardless timer (<i>Low Battery Charging Cycle</i> setpoint) elapsing. Gen-set is stopped by STOP button or by any SD alarm event only in this case.</p> <p>If there is <i>Charging Alternator Fail</i> alarm occurred during battery recharging period, current battery recharging continues until time is elapsed. Next gen-set start due to battery undervoltage is blocked until controller is restarted.</p>			
<div><b>IMPORTANT:</b> If controller is in MAN mode and the battery voltage is under the limit more than 5 minutes engine is started immediately when controller is switched to AUT mode.</div>			
<div><b>Note:</b> <i>Low Battery Charging function is available only when separate MRS archive is used.</i></div>			

[back to List of setpoints](#)

## Subgroup: Pulse Counters

### Conversion Coefficient Pulse 1

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 ... 1 000 [-]		
Default value	1	Alternative config	NO
Step	1		
Comm object	10994	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Only if LBI <b>PULSE COUNTER 1 (PAGE 532)</b> is configured		
Description			
This setpoint adjusts the rate of increasing of the Pulse Counter 1 function. The module counts pulses at the input <b>PULSE COUNTER 1 (PAGE 532)</b> and if the input pulses counter reaches value given by this setpoint, the counter value <b>Pulse Counter 1 (page 469)</b> is increased by 1 and input pulses counter is reset to 0. Both counter value and input pulses counter are stored in the nonvolatile memory.			

[back to List of setpoints](#)

## Conversion Coefficient Pulse 2

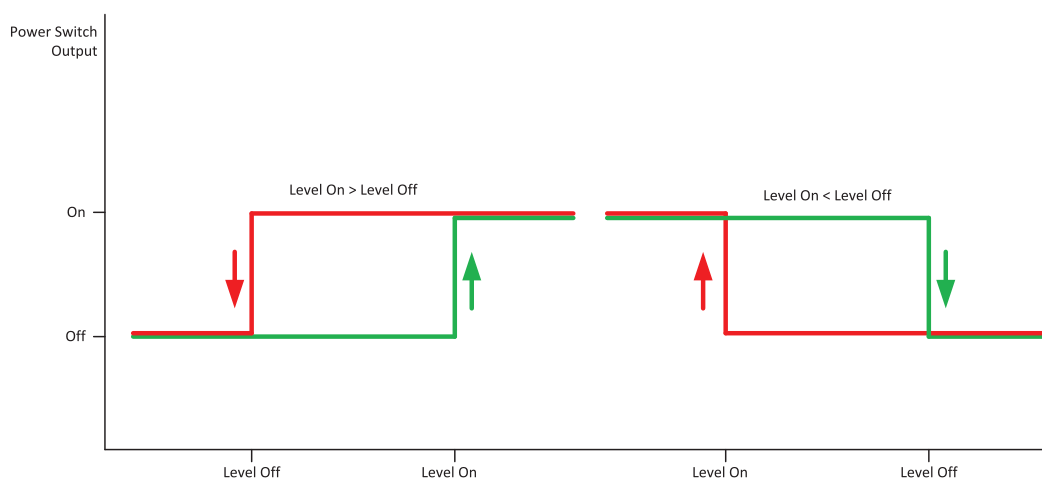
Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 ... 1 000 [-]		
Default value	1	Alternative config	NO
Step	1		
Comm object	10995	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Only if LBI <b>PULSE COUNTER 2 (PAGE 533)</b> is configured		
Description			
This setpoint adjusts the rate of increasing of the Pulse Counter 2 function. The module counts pulses at the input <b>PULSE COUNTER 2 (PAGE 533)</b> and if the input pulses counter reaches value given by this setpoint, the counter value <b>Pulse Counter 2 (page 469)</b> is increased by 0,1 and input pulses counter is reset to 0. Both counter value and input pulses counter are stored in the nonvolatile memory.			

🔍 back to List of setpoints

### Subgroup: Power switch

## Power Switch On

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 32 000 [kW]		
Default value	100 kW	Alternative config	NO
Step	1 kW		
Comm object	11658	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Visible only if the logical binary output <b>POWER SWITCH (PAGE 582)</b> is configured.		
Description			
Threshold level for switching the binary output <b>POWER SWITCH (PAGE 582)</b> on.			



The graph illustrates the logic for the Power Switch output based on the Level On and Level Off thresholds. The y-axis represents the Power Switch Output (On/Off), and the x-axis represents the Level. Two scenarios are shown:

- Level On > Level Off:** The output is Off until the Level reaches Level On, at which point it switches to On. A red arrow points down at the Level Off threshold, and a green arrow points up at the Level On threshold.
- Level On < Level Off:** The output is On until the Level reaches Level Off, at which point it switches to Off. A red arrow points up at the Level On threshold, and a green arrow points down at the Level Off threshold.

Image 9.15 Power Switch Level On < Level Off



🔍 back to List of setpoints

### Power Switch Off

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 32 000 [kW]		
Default value	50 kW	Alternative config	NO
Step	1 kW		
Comm object	11659	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Visible only if the logical binary output <b>POWER SWITCH (PAGE 582)</b> is configured.		
Description			
Threshold level for switching the binary output <b>POWER SWITCH (PAGE 582)</b> on.			

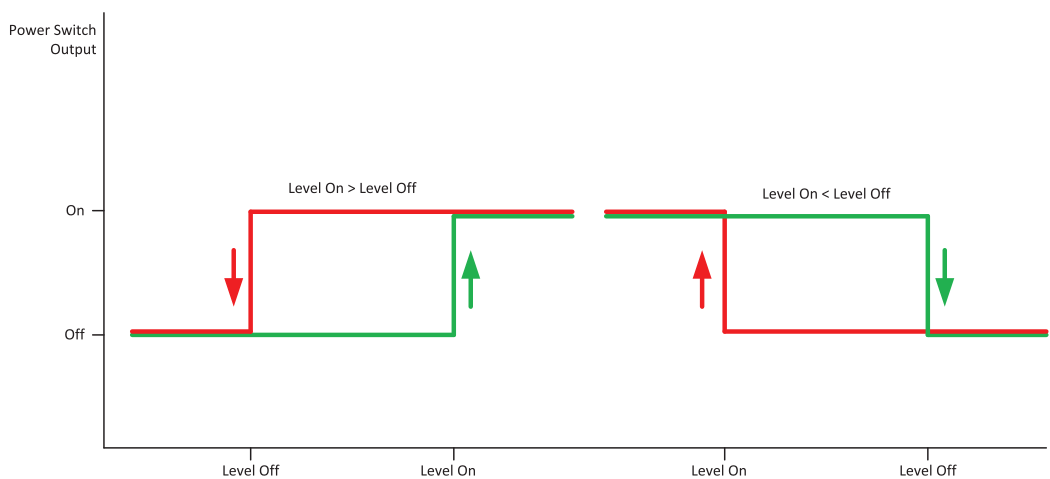


Image 9.17 Power Switch Level On < Level Off

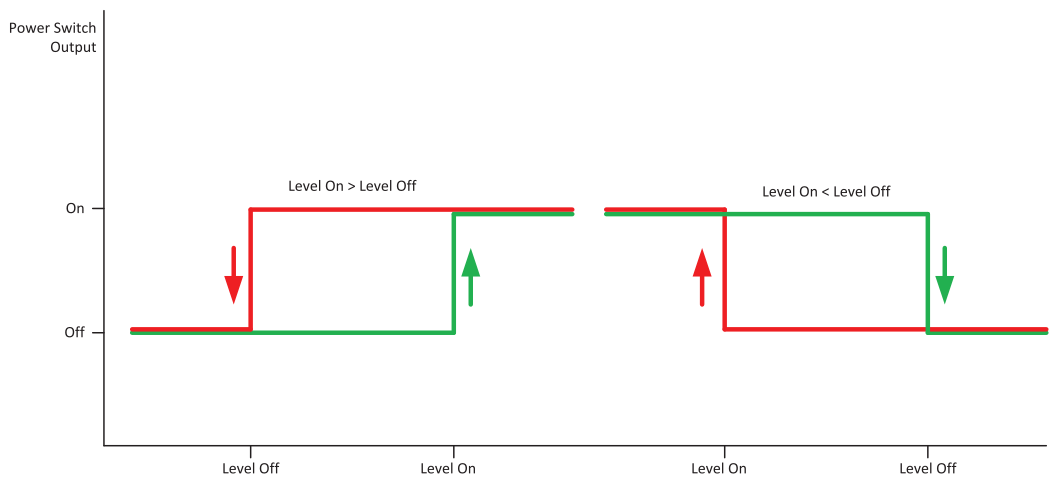


Image 9.18 Power Switch Level On > Level Off

[back to List of setpoints](#)

## Subgroup: Ventilation

## Ventilation Pulse Time

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0–3600 [s]		
Default value	30 s	Alternative config	NO
Step	1 s		
Comm object	15767	Related applications	MRS. AMF
Config level	Advanced		
Setpoint visibility	Only when logical binary output <b>VENTILATION ON PULSE (PAGE 590)</b> or <b>VENTILATION OFF PULSE (PAGE 589)</b> is configured.		
Description			
This setpoint defines duration of pulse generated on logical binary outputs <b>VENTILATION ON PULSE (PAGE 590)</b> or <b>VENTILATION OFF PULSE (PAGE 589)</b> at the moment when logical binary output <b>VENTILATION (PAGE 589)</b> is activated or deactivated respectively.			

[↶ back to List of setpoints](#)

## Subgroup: ECU Settings

## ECU Speed Adjustment

Setpoint group	Engine settings	Related FW	1.8.0
Range [units]	0 .. 100 [%]		
Default value	50 %	Alternative config	NO
Step	1 %		
Comm object	9948	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Visible only if ECU is configured		
Description			
Enables to adjust engine speed in ECU via CAN bus. Nominal speed corresponds to 50%. This setpoint should be used only for Volvo Penta and Scania engines. It has no effect on other engine brands.			
<b>Note:</b> To lock this setpoint against editing you also have to lock setpoint <b>ECU Speed Adjustment 1 (page 341)</b> , <b>ECU Speed Adjustment 2 (page 342)</b> and <b>ECU Speed Adjustment 3 (page 342)</b> .			

[↶ back to List of setpoints](#)