

Analog Switch 20 Off

Setpoint group	General Analog Inputs	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	14994	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Visible only if the logical binary output AIN SWITCH04 (PAGE 552) is configured		
Description			
Threshold level for switching the binary output AIN SWITCH 20 (PAGE 619) off. The value is measured from AIN SWITCH 04 (PAGE 614) analog input.			

General Analog Switch Output

On

Off

Level On > Level Off

Level On < Level Off

Level Off

Level On

Level On

Level Off

Time

Image 9.59 General analog input 4 switch

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Group: Scheduler

Subgroup: Time & Date

Time

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	HH:MM:SS [-]		
Default value	0:0:0	Alternative config	NO
Step	[-]		
Comm object	24554	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Real time clock adjustment.			

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Date

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	DD/MM/YYYY [-]		
Default value	1.1.2015	Alternative config	NO
Step	[-]		
Comm object	24553	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Actual date adjustment.			

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Time Stamp Period

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	0 .. 240 [min]		
Default value	60 min	Alternative config	NO
Step	1 min		
Comm object	8979	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Time interval for periodic history records.			
<i>Note: History record is made only when engine is running.</i>			

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#Summer Time Mode

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Disabled / Winter / Summer / Winter - S / Summer - S [-]		
Default value	Disabled	Alternative config	NO
Step	[-]		
Comm object	8727	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Behavior of switching between winter and summer time.			
Disable	Automatic switching between summer and wintertime is disabled.		
Winter (Summer)	Automatic switching between summer and wintertime is enabled and it is set to winter (summer) season.		
Winter - S (Summer - S)	Modification for southern hemisphere.		

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Subgroup: Timer 1

Timer 1 Function

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Disable / No Func / /Auto Run / Mode OFF [-]		
Default value	Disable	Alternative config	NO
Step	[-]		
Comm object	15358	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
It is possible to choose from following timer functions. Binary output EXERCISE TIMER 1 (PAGE 568) is always activated when Timer is active regardless of chosen timer function. Timer functions require controller running in AUTO mode.			
Timer 1 has higher priority over Timer 2. So if Timer 1 Function (page 303) is configured for OFF mode and Timer 2 Function (page 310) is over the same time configured for AUTO mode, controller will work in OFF mode.			
Controller activates timer whenever it is powered up even in period, where timer should be already running.			
Disable	The Timer is disabled.		
No Func	There is no any other function, only binary output of timer is activated.		
Auto Run	When this option is chosen then the binary output of timer is internally connected to the REMOTE START/STOP (PAGE 534) binary input.		
Mode OFF	When this option is chosen then the binary output of timer is internally connected to the Remote OFF binary input.		

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Timer 1 Setup

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[-]		
Default value	[-]	Alternative config	NO
Step	[-]		
Comm object	10969	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Related setpoints for timer 1 are:			
<div><div><div>▶ Timer 1 Function (page 303)</div><div>▶ Timer 1 Repetition (page 304)</div><div>▶ Timer 1 First Occur. Date (page 305)</div><div>▶ Timer 1 First Occur. Time (page 305)</div><div>▶ Timer 1 Duration (page 305)</div><div>▶ Timer 1 Repeated (page 306)</div><div>▶ Timer 1 Repeat Day (page 309)</div></div><div><div>▶ Timer 1 Day (page 308)</div><div>▶ Timer 1 Repeated Day In Week (page 309)</div><div>▶ Timer 1 Repeat Day In Month (page 309)</div><div>▶ Timer 1 Repeat Week In Month (page 310)</div><div>▶ Timer 1 Refresh Period (page 307)</div><div>▶ Timer 1 Weekends (page 308)</div></div></div>			

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Timer 1 Repetition

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Off / Once / Repeated [-]		
Default value	Off	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Defines repetition of Timer 1 Function (page 303) .			
Off	Timer 1 Function (page 303) will not be activated.		
Once	Timer 1 Function (page 303) will be activated only one time.		
Repeated	Timer 1 Function (page 303) will be repeatedly activated.		

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Timer 1 First Occur. Date

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[DD/MM/YYYY]		
Default value	01/01/2000	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Date of first occurrence of Timer 1 Function (page 303) .			

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Timer 1 First Occur. Time

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[HH:MM]		
Default value	00:00	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Time of first occurrence of Timer 1 Function (page 303) .			

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Timer 1 Duration

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[HH:MM]		
Default value	00:00	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Timer 1 Function (page 303) duration time.			

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Timer 1 Repeated

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Daily / Weekly / Monthly / Short Period [-]		
Default value	Daily	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Repeated interval of Timer 1 Function (page 303) .			
Daily	Timer 1 Function (page 303) is repeated every day.		
Weekly	Timer 1 Function (page 303) is repeated every week in chosen days.		
Monthly	Timer 1 Function (page 303) is repeated in chosen day every month or in chosen days of chosen week of month		
Short Period	Timer 1 Function (page 303) is repeated in adjusted period.		

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Timer 1 Refresh Period

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[-]		
Default value	[-]	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Refresh period of Timer 1 Function (page 303) . Meaning of this setpoint depends on type of repetition adjusted in Timer 1 Repeated (page 306) .			
Daily	Range [units]: 1 .. 1000 [day]. This setpoint adjust that every X day the timer will be activated. Example: If you have daily repetition and you set this setpoint to 2, then every second day from first occurrence of Timer 1 Function (page 303) , the Timer 1 Function (page 303) will be activated.		
Weekly	Range [units]: 1 .. 60 [week]. This setpoint adjust that every X week the timer will be activated. Example: If you have weekly repetition and you set this setpoint to 2, then every second week from first occurrence of Timer 1 Function (page 303) , the Timer 1 Function (page 303) will be activated in selected days adjusted by Timer 1 Day (page 308) .		
Monthly	Range [units]: 1 .. 12 [month]. This setpoint adjust that every X month the timer will be activated. Example: If you have monthly repetition and you set this setpoint to 2, then every second month from first occurrence of Timer 1 Function (page 303) , the Timer 1 Function (page 303) will be activated in selected day of month adjusted by Timer 1 Repeat Day In Month (page 309) or in selected days of week of month adjusted by Timer 1 Day (page 308) and Timer 1 Repeat Week In Month (page 310) .		
Short Period	Range [units]: [HH:MM]. This setpoint adjust that every X short period the timer will be activated. Example: If you have short period repetition and you set this setpoint to 2, then every second minute from first occurrence of Timer 1 Function (page 303) , the Timer 1 Function (page 303) will be activated.		

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Timer 1 Weekends

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Including / Skip / Postpone [-]		
Default value	Including	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Behavior of Timer 1 Function (page 303) on weekends.			
Including	Timer 1 Function (page 303) counter is running on the weekends and Timer 1 Function (page 303) can be active.		
Skip	Timer 1 Function (page 303) counter is running on the weekends but Timer 1 Function (page 303) isn't active.		
Postpone	Timer 1 Function (page 303) counter isn't running on the weekends and Timer 1 Function (page 303) isn't active. If the activation of timer is counted on the weekend, than timer will be activated after weekend. Another activation of timer is counted from original date of first occurrence date.		

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Timer 1 Day

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Monday / Tuesday / Wednesday / Thursday / Friday / Saturday/ Sunday[-]		
Default value	All OFF	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Use this setpoint to include or exclude individual days of week. To select the day use Up and Down buttons. To change the value of day use Enter button.			

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Timer 1 Repeat Day

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Repeated Day / Repeated Day In Week [-]		
Default value	Repeated Day	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Use this setpoint to adjust behavior of monthly repetition of the Timer 1 Function (page 303) .			
Repeated Day	Chose one day in month when Timer 1 Function (page 303) will be activated.		
Repeated Day In Week	Chose days in one week when Timer 1 Function (page 303) will be activated.		

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Timer 1 Repeated Day In Week

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Monday / Tuesday / Wednesday / Thursday / Friday / Saturday/ Sunday[-]		
Default value	All OFF	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Use this setpoint to select the day of week when timer will be activated.			
Note: More day can be selected. Timer will be activated on the day which happened like the first.			

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Timer 1 Repeat Day In Month

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	1..31 [day]		
Default value	0	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
Use this setpoint to chose the day in month when the Timer 1 Function (page 303) will be activated.			

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Timer 1 Repeat Week In Month

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	1 .. 5 [week]		
Default value	1 week	Alternative config	NO
Step	1 week		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 1 Function (page 303)		
Description			
This setpoint adjust the week of month in which the Timer 1 Function (page 303) will be activated.			

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Subgroup: Timer 2**Timer 2 Function**

Setpoint group	Scheduler	Related FW	1.8.0								
Range [units]	Disable / No Func / /Auto Run / Mode OFF [-]										
Default value	No Func	Alternative config	NO								
Step	[-]										
Comm object	15359	Related applications	AMF, MRS								
Config level	Standard										
Setpoint visibility	Always										
Description											
<p>It is possible to choose from following Timer functions. Binary output EXERCISE TIMER 2 (PAGE 568) is always activated when Timer is active regardless of chosen timer function. Timer functions require controller running in AUTO mode.</p> <p>Timer 1 has higher priority over Timer 2. So if Timer 1 Function (page 303) is configured for OFF mode and Timer 2 Function (page 310) is over the same time configured for AUTO mode, controller will work in OFF mode.</p> <p>Controller activates timer whenever it is powered up even in period, where timer should be already running.</p> <table><tr><td>Disable</td><td>The Timer is disabled.</td></tr><tr><td>No Func</td><td>There is no any other function, only binary output of timer is activated.</td></tr><tr><td>Auto Run</td><td>When this option is chosen then the binary output of timer is internally connected to the REMOTE START/STOP (PAGE 534) binary input.</td></tr><tr><td>Mode OFF</td><td>When this option is chosen then the binary output of timer is internally connected to the Remote OFF binary input.</td></tr></table>				Disable	The Timer is disabled.	No Func	There is no any other function, only binary output of timer is activated.	Auto Run	When this option is chosen then the binary output of timer is internally connected to the REMOTE START/STOP (PAGE 534) binary input.	Mode OFF	When this option is chosen then the binary output of timer is internally connected to the Remote OFF binary input.
Disable	The Timer is disabled.										
No Func	There is no any other function, only binary output of timer is activated.										
Auto Run	When this option is chosen then the binary output of timer is internally connected to the REMOTE START/STOP (PAGE 534) binary input.										
Mode OFF	When this option is chosen then the binary output of timer is internally connected to the Remote OFF binary input.										

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Timer 2 Setup

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[-]		
Default value	[-]	Alternative config	NO
Step	[-]		
Comm object	10970	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Always		
Description			
Related setpoints for timer 2 are:			
<div><div><div>▶ Timer 2 Function (page 310)</div><div>▶ Timer 2 Repetition (page 311)</div><div>▶ Timer 2 First Occur. Date (page 312)</div><div>▶ Timer 2 First Occur. Time (page 312)</div><div>▶ Timer 2 Duration (page 312)</div><div>▶ Timer 2 Repeated (page 313)</div><div>▶ Timer 2 Repeat Day (page 316)</div></div><div><div>▶ Timer 2 Day (page 315)</div><div>▶ Timer 2 Repeated Day In Week (page 316)</div><div>▶ Timer 2 Repeat Day In Month (page 316)</div><div>▶ Timer 2 Repeat Week In Month (page 317)</div><div>▶ Timer 2 Refresh Period (page 314)</div><div>▶ Timer 2 Weekends (page 315)</div></div></div>			

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Timer 2 Repetition

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Off / Once / Repeated [-]		
Default value	Off	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Defines repetition of Timer 2 Function (page 310) .			
Off	Timer 2 Function (page 310) will not be activated.		
Once	Timer 2 Function (page 310) will be activated only one time.		
Repeated	Timer 2 Function (page 310) will be repeatedly activated.		

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Timer 2 First Occur. Date

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[DD/MM/YYYY]		
Default value	01/01/2000	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Date of first occurrence of Timer 2 Function (page 310) .			

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Timer 2 First Occur. Time

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[HH:MM]		
Default value	00:00	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Time of first occurrence of Timer 2 Function (page 310) .			

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Timer 2 Duration

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[HH:MM]		
Default value	00:00	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Timer 2 Function (page 310) duration time.			

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Timer 2 Repeated

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Daily / Weekly / Monthly / Short Period [-]		
Default value	Daily	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Repeated interval of Timer 2 Function (page 310) .			
Daily	Timer 2 Function (page 310) is repeated every day.		
Weekly	Timer 2 Function (page 310) is repeated every week in chosen days.		
Monthly	Timer 2 Function (page 310) is repeated in chosen day every month or in chosen days of chosen week of month		
Short Period	Timer 2 Function (page 310) is repeated in adjusted period.		

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Timer 2 Refresh Period

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[-]		
Default value	[-]	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Refresh period of Timer 2 Function (page 310) . Meaning of this setpoint depends on type of repetition adjusted in Timer 2 Repeated (page 313) .			
Daily	Range [units]: 1 .. 1000 [day]. This setpoint adjust that every X day the timer will be activated. Example: If you have daily repetition and you set this setpoint to 2, then every second day from first occurrence of Timer 2 Function (page 310) , the Timer 2 Function (page 310) will be activated.		
Weekly	Range [units]: 1 .. 60 [week]. This setpoint adjust that every X week the timer will be activated. Example: If you have weekly repetition and you set this setpoint to 2, then every second week from first occurrence of Timer 2 Function (page 310) , the Timer 2 Function (page 310) will be activated in selected days adjusted by Timer 2 Day (page 315) .		
Monthly	Range [units]: 1 .. 12 [month]. This setpoint adjust that every X month the timer will be activated. Example: If you have monthly repetition and you set this setpoint to 2, then every second month from first occurrence of Timer 2 Function (page 310) , the Timer 2 Function (page 310) will be activated in selected day of month adjusted by Timer 2 Repeat Day In Month (page 316) or in selected days of week of month adjusted by Timer 2 Day (page 315) and Timer 2 Repeat Week In Month (page 317) .		
Short Period	Range [units]: [HH:MM]. This setpoint adjust that every X short period the timer will be activated. Example: If you have short period repetition and you set this setpoint to 2, then every second minute from first occurrence of Timer 2 Function (page 310) , the Timer 2 Function (page 310) will be activated.		

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Timer 2 Weekends

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Including / Skip / Postpone [-]		
Default value	Including	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Behavior of Timer 2 Function (page 310) on weekends.			
Including	Timer 2 Function (page 310) counter is running on the weekends and Timer 2 Function (page 310) can be active.		
Skip	Timer 2 Function (page 310) counter is running on the weekends but Timer 2 Function (page 310) isn't active.		
Postpone	Timer 2 Function (page 310) counter isn't running on the weekends and Timer 2 Function (page 310) isn't active. If the activation of timer is counted on the weekend, than timer will be activated after weekend. Another activation of timer is counted from original date of first occurrence date.		

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Timer 2 Day

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Monday / Tuesday / Wednesday / Thursday / Friday / Saturday/ Sunday[-]		
Default value	All OFF	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Use this setpoint to include or exclude individual days of week. To select the day use Up and Down buttons. To change the value of day use Enter button.			

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Timer 2 Repeat Day

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Repeated Day / Repeated Day In Week [-]		
Default value	Repeated Day	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Use this setpoint to adjust behavior of monthly repetition of the Timer 2 Function (page 310) .			
Repeated Day	Chose one day in month when Timer 2 Function (page 310) will be activated.		
Repeated Day In Week	Chose days in one week when Timer 2 Function (page 310) will be activated.		

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Timer 2 Repeated Day In Week

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Monday / Tuesday / Wednesday / Thursday / Friday / Saturday/ Sunday[-]		
Default value	All OFF	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Use this setpoint to select the day of week when timer will be activated.			
Note: More day can be selected. Timer will be activated on the day which happened like the first.			

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Timer 2 Repeat Day In Month

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	1..31 [day]		
Default value	0	Alternative config	NO
Step	[-]		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
Use this setpoint to chose the day in month when the Timer 2 Function (page 310) will be activated.			



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Timer 2 Repeat Week In Month

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	1 .. 5 [week]		
Default value	1 week	Alternative config	NO
Step	1 week		
Comm object	0	Related applications	AMF, MRS
Config level	Standard		
Setpoint visibility	Conditioned by the setpoint Timer 2 Function (page 310)		
Description			
This setpoint adjust the week of month in which the Timer 2 Function (page 310) will be activated.			

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Subgroup: Rental Timers**Rental Timer 1**

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Disabled / 1 .. 8 760 [h]		
Default value	Disabled	Alternative config	NO
Step	1 h		
Comm object	14326	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
Another engine start is not allowed when this timer elapsed. This timer is based on engine running hours. The alarm Rental Timer 1 Elapsed (page 643) will be recorded in alarm list and the binary output AL RENTAL TIMER 1 (PAGE 549) will close.			
<div><div><div>IMPORTANT: To reset Rental Timer 1 (page 317) we have to set up Rental Timer 1 (page 317) again. It means go to setpoint group Scheduler and to the setpoint Rental Timer 1 (page 317). Then press enter button , change the value if it is necessary and press enter button  again.</div></div></div>			
When the Rental Timer 1 (page 317) elapsed during engine run the gen-set will not stop immediately. The adjustable Rental Timer BOC (page 321) timer will start in this moment. The engine will be cooled and stopped when the Rental Timer BOC (page 321) time elapsed.			

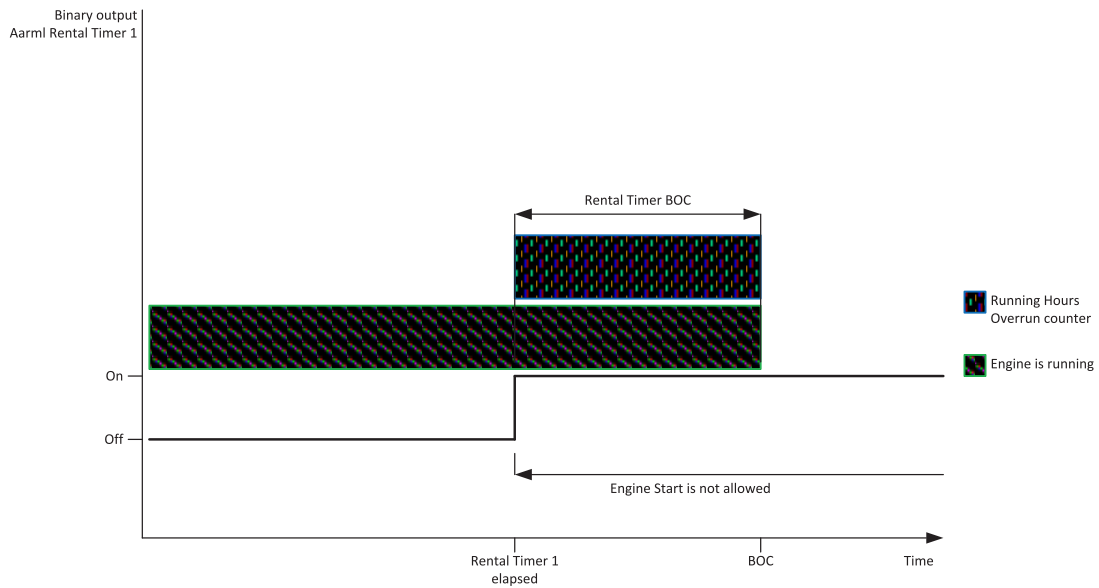


Image 9.60 Rental Timer 1

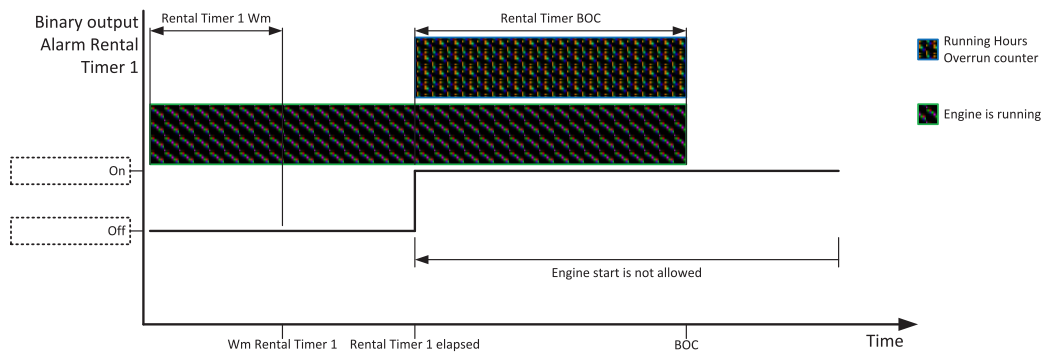
The Running Hours Overrun counter will start increment when the engine is continue running after the **Rental Timer 1** (page 317) elapsed.

Note: There is no priority between Rental Timer 1 and Rental Timer 2. The sooner timer will activated the Rental Timer BOC (page 321) protection.

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Rental Timer 1 Wrn

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Disabled / 1.. Rental Timer 1 (page 317) [h]		
Default value	Disabled	Alternative config	NO
Step	1 h		
Comm object	14332	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Conditioned by the setpoint Rental Timer 1 (page 317)		
Description			
Alarm Wrn Rental Timer 1 (page 652) comes up after xx running hours from adjusting the Rental Timer 1 (page 317) . Hours are adjusted by this setpoint.			



The diagram illustrates the timing of the Rental Timer 1 Wrn alarm. It shows a timeline with two main periods: 'Rental Timer 1 Wm' and 'Rental Timer BOC'. During 'Rental Timer 1 Wm', the 'Binary output Alarm Rental Timer 1' is 'On'. During 'Rental Timer BOC', the 'Binary output Alarm Rental Timer 1' is 'Off'. A legend indicates that the hatched area represents 'Running Hours Overrun counter' and the solid black area represents 'Engine is running'. A note states 'Engine start is not allowed' during the 'Rental Timer BOC' period. The timeline is marked with 'Wm Rental Timer 1', 'Rental Timer 1 elapsed', and 'BOC'.

Image 9.61 Rental Timer 1 Wrn



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Rental Timer 2

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	[DD/MM/YYYY]		
Default value	01/01/2015	Alternative config	NO
Step	1 day		
Comm object	14367	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		

Description

Another engine start is not allowed when this timer elapsed. This timer is based on date. At the midnight of the last day the alarm **Rental Timer 2 Elapsed (page 643)** will be recorded in alarm list and the binary output **AL RENTAL TIMER 2 (PAGE 549)** will close.

IMPORTANT: To reset Rental Timer 2 (page 319) we have to set up Rental Timer 2 (page 319) again. It means go to setpoint group Scheduler and to the setpoint Rental Timer 2 (page 319). Then press enter button , change the value if it is necessary and press enter button  again.

IMPORTANT: To disable Rental Timer 2 (page 319) set date to 01/01/2015.

When the **Rental Timer 2** (page 319) elapsed during engine run the gen-set will not stop immediately. The adjustable **Rental Timer BOC** (page 321) timer will start in this moment. The engine will be cooled and stopped when the **Rental Timer BOC** (page 321) time elapsed.

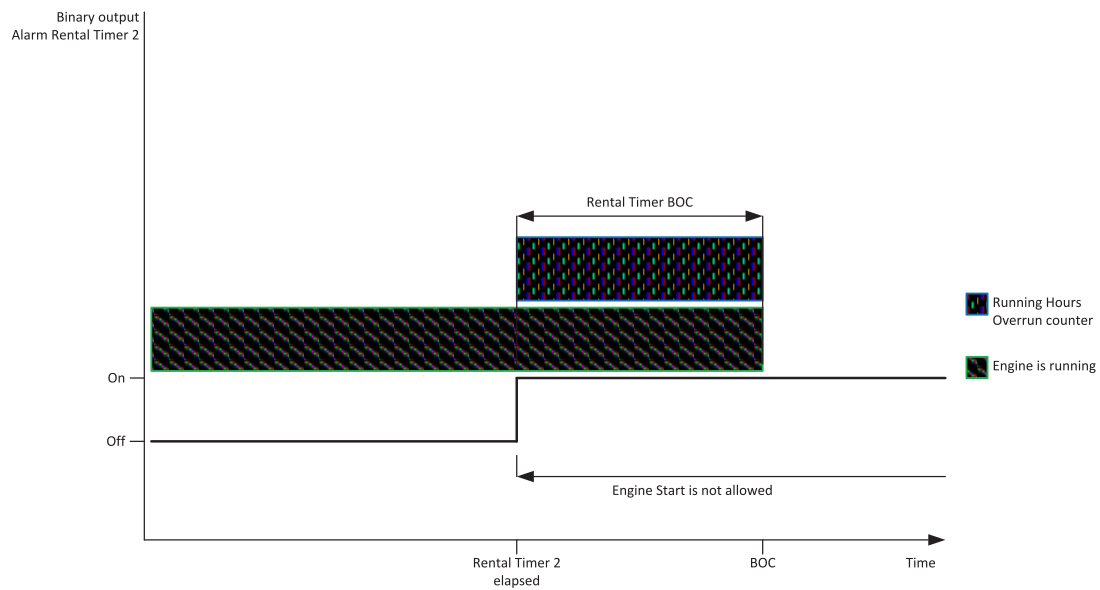


Image 9.62 Rental Timer 2

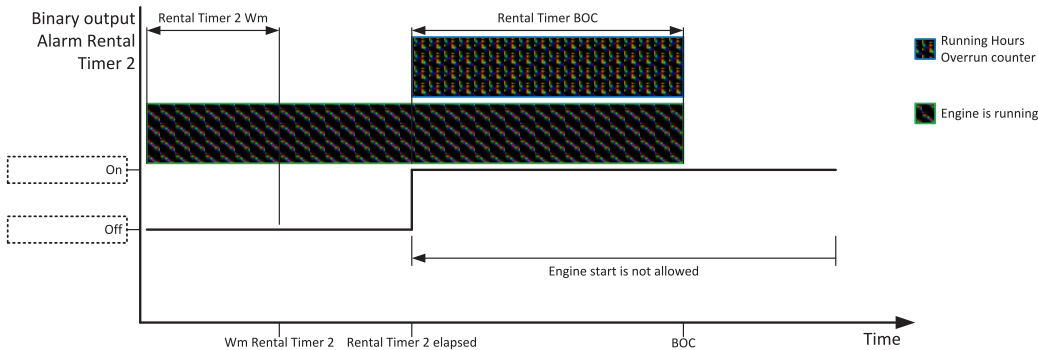
The Running Hours Overrun counter will start increment when the engine is continue running after the **Rental Timer 2** (page 319) elapsed.

Note: There is no priority between Rental Timer 1 and Rental Timer 2. The sooner timer will activated the Rental Timer BOC (page 321) protection.

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Rental Timer 2 Wrn

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Disabled / 01/01/2015 .. Rental Timer 2 (page 319) [DD/MM/YYYY]		
Default value	01/01/2015	Alternative config	NO
Step	1 day		
Comm object	14368	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Conditioned by the setpoint Rental Timer 2 (page 319)		
Description			
Alarm Wrn Rental Timer 2 (page 652) comes up xx days before the Rental Timer 2 (page 319) . Days are adjusted by this setpoint.			



The diagram illustrates the timing of the Rental Timer 2 Wrn alarm. It shows a timeline with several key events: 'Wm Rental Timer 2' (warning), 'Rental Timer 2 elapsed', and 'BOC' (Binary Output Counter). A 'Binary output Alarm Rental Timer 2' is shown as a pulse. A 'Running Hours Overrun counter' is shown as a bar chart. A 'Engine is running' indicator is shown as a green bar. A period labeled 'Engine start is not allowed' is shown after the 'Rental Timer 2 elapsed' event.

Image 9.63 Rental Timer 2 Wrn

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Rental Timer BOC

Setpoint group	Scheduler	Related FW	1.8.0
Range [units]	Disabled / 1 .. 210 [h]		
Default value	24 h	Alternative config	NO
Step	1 h		
Comm object	14334	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Conditioned by the setpoints Rental Timer 1 (page 317) and Rental Timer 2 (page 319)		
Description			
This timer will start after Rental Timer 1 (page 317) or Rental Timer 2 (page 319) elapsed in case that the engine is still running. When this timer elapsed the engine is cooled and stopped.			

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