



Set trigger conditions for offline scope FAQ No.0003

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Content

Purpose of this document.....	2
Description.....	2
Sample list: trigger on output speed 10Hz.....	2
Sample list: trigger on error message E:OC.....	3
Disclaimer.....	5

Purpose of this document

In Scope Offline Mode the trigger must be set as digital or software input. This description shows how to set a condition (e.g. status or level) by software output to a software input. The adjustments are valid for KEB COMBIVERT F5 / B6 / G6

Description

Procedure: Every software input is fixed to a software output. IA=OA / IB=OB / IC=OC / ID = OD. If the condition close to OA switches then IA does also.

One of 8 conditions may be chosen, fixed to one of 8 flags and fixed to the regarding output/input. This condition is independent to the preset channels in scope.

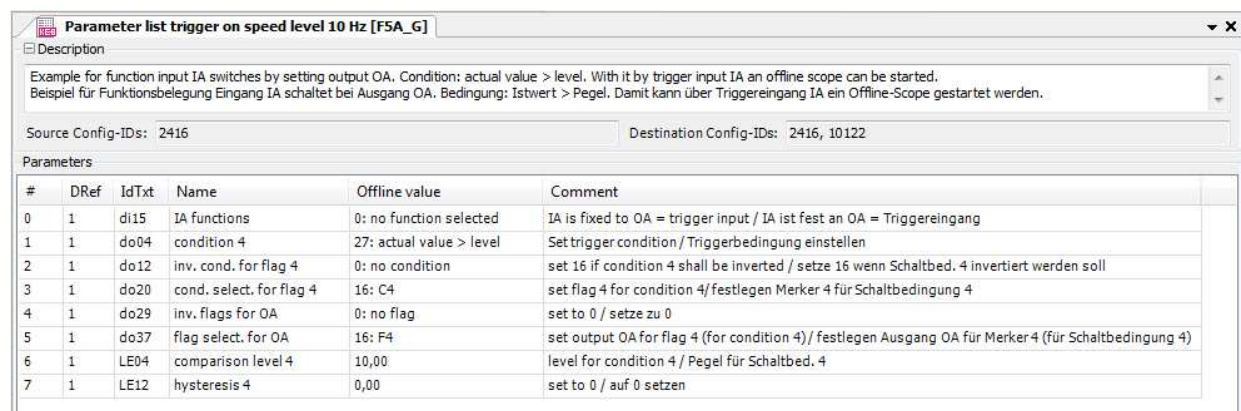
For example, it is possible to trigger on a defined speed, current, voltage or an inverter status or error message.

The easiest way to a get a trigger on input IA is using the factory settings and using condition 4 / flag 4 for output OA / input IA. Level 4 belongs fix to condition 4.

Other adjustments using IB (cond. 5, flag 5, level 5, IC (cond.6, flag 6, level 6) or ID (cond. 7, flag 7, level 7) work in the same way.

Sample list: trigger on output speed 10Hz

Parameter	Value	Comment
di15 IA functions	0: no function selected	IA fix to OA = trigger input
do04 condition 4	27: actual value > level	Set trigger condition
do12 inv. cond. for flag 4	0: no condition	set 16 if condition 4 shall be inverted
do20 cond. select. for flag 4	16: C4	set flag 4 for condition 4
do29 inv. flags for OA	0: no flag	set to 0
do37 flag select. for OA	16: F4	set output OA for flag 4 (for condition 4)
LE04 comparison level 4	10,00	level for condition 4
LE12 hysteresis 4	0,00	set to 0



Parameter list trigger on speed level 10 Hz [F5A_G]

Description: Example for function input IA switches by setting output OA. Condition: actual value > level. With it by trigger input IA an offline scope can be started. Beispiel für Funktionsbelegung Eingang IA schaltet bei Ausgang OA. Bedingung: Istwert > Pegel. Damit kann über Triggereingang IA ein Offline-Scope gestartet werden.

Source Config-IDs: 2416 Destination Config-IDs: 2416, 10122

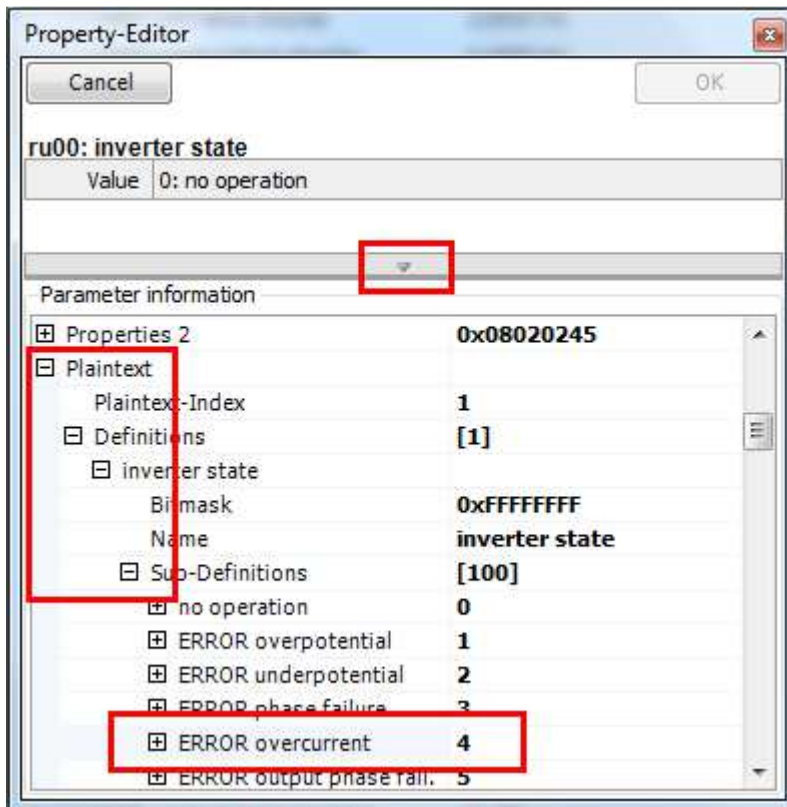
#	DRef	IdTxt	Name	Offline value	Comment
0	1	di15	IA functions	0: no function selected	IA is fixed to OA = trigger input / IA ist fest an OA = Triggereingang
1	1	do04	condition 4	27: actual value > level	Set trigger condition / Triggerbedingung einstellen
2	1	do12	inv. cond. for flag 4	0: no condition	set 16 if condition 4 shall be inverted / setze 16 wenn Schaltbed. 4 invertiert werden soll
3	1	do20	cond. select. for flag 4	16: C4	set flag 4 for condition 4 / festlegen Merker 4 für Schaltbedingung 4
4	1	do29	inv. flags for OA	0: no flag	set to 0 / setze zu 0
5	1	do37	flag select. for OA	16: F4	set output OA for flag 4 (for condition 4) / festlegen Ausgang OA für Merker 4 (für Schaltbedingung 4)
6	1	LE04	comparison level 4	10,00	level for condition 4 / Pegel für Schaltbed. 4
7	1	LE12	hysteresis 4	0,00	set to 0 / auf 0 setzen

In the folder "StartUp lists" a sample parameter list for COMBIVERT F5 or B6 can be found for opening in COMBIVIS. COMBIVERT G6 uses different parameter hexadecimal addresses but the same names: *Parameter_list_F5_B6_offline_trigger_on_speed_level_10 Hz.dw5*

Sample list: trigger on error message E:OC

E:OC has value 4 in parameter ru.00 inverter status

Other values can be found in the application manual or in COMBIVIS 6 Property editor at parameter ru.00 in Plaintext/Sub definitions:



Parameter	Value	Comment
di15 IA functions	0: no function selected	IA fix to OA = trigger input
do04 condition 4	44: status (ru00) = level	Set trigger condition
do12 inv. cond. for flag 4	0: no condition	set to 0
do20 cond. select. for flag 4	16: C4	set flag 4 for condition 4
do29 inv. flags for OA	0: no flag	set to 0
do37 flag select. for OA	16: F4	set output OA for flag 4 (for condition 4)
LE04 comparison level 4	4,00	level for condition 4 (4,00=E:OC)
LE12 hysteresis 4	0,00	set to 0

Parameter list trigger on speed level 10 Hz [F5A_G]

Description

Example for function input IA switches by setting output OA. Condition: actual value > level. With it by trigger input IA an offline scope can be started.
 Beispiel für Funktionsbelegung Eingang IA schaltet bei Ausgang OA. Bedingung: Istwert > Pegel. Damit kann über Triggereingang IA ein Offline-Scope gestartet werden.

Source Config-IDs: 2416 Destination Config-IDs: 2416, 10122

Parameters

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1	1	do04	condition 4	27: actual value > level	Set trigger condition / Triggerbedingung einstellen
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3	1	do20	cond. select. for flag 4	16: C4	set flag 4 for condition 4/ festlegen Merker 4 für Schaltbedingung 4
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6	1	LE04	comparison level 4	10,00	level for condition 4 / Pegel für Schaltbed. 4
7	1	LE12	hysteresis 4	0,00	set to 0 / auf 0 setzen

In the folder "StartUp lists" a sample parameter list for COMBIVERT F5 or B6 can be found for opening in COMBIVIS. COMBIVERT G6 uses different parameter hexadecimal addresses but the same names:
Parameter_list_F5_B6_offline_trigger_on_E_OC.dw5

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