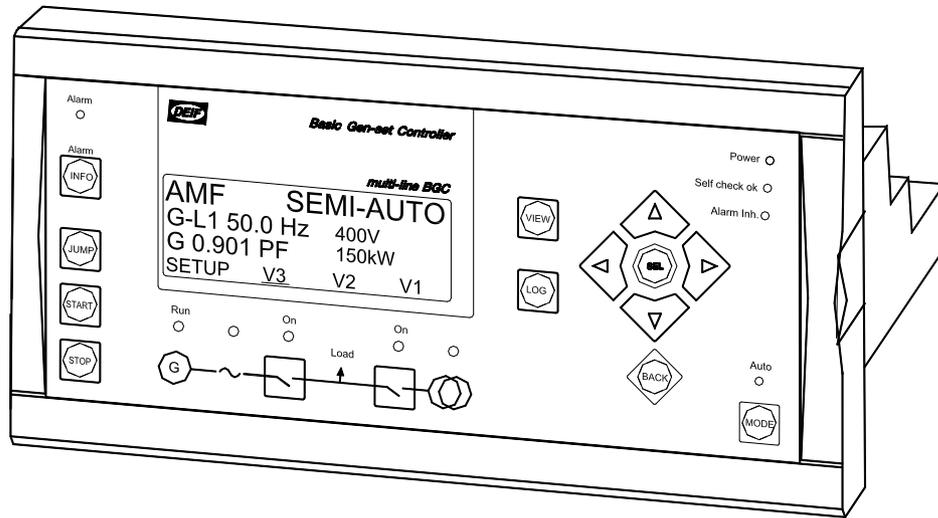


4189340298B



DEIFA/S

- 
- 
- 

CE



1.	..... !	.
	..... !	.
	/ .....	2
2.	.....	2
	.....	2
	.....	2
	.....	2
3.	.....	2
	..... !	.
	.....	2
4.	.....	2
	.....	2
	.....	2
	.....	2
	.....	2
5.	.....	2
	..... !	.
	.....	2
	.....	2
	.....	2
	.....	2
6.	.....	2
	/ .....	2
	.....	2
	..... !	.
	..... !	.
	..... !	.
	.....	2
	VDO .....	2
	.....	2
	..... !	.
	..... !	.
	.....	2
GSM	.....	2
	..... !	.
	..... !	.
	.....	2
7.	.....	2
	.....	2
	.....	2
	..... !	.
8.	.....	2
	.....	2
	.....	2
	.....	2
	.....	2
	.....	2
	.....	2

**1.**

---

BGC,

DEIF

BGC.

**BGC**

BGC.

BGC.

BGC.

BGC

2.

---

DEIF

BGC,

BGC.
------

multi-line 2



XX

**3.**

---

BGC

DEIF.

BGC

BGC

3-

BGC

4.

BGC

BGC

BGC.

AMF ( )

•  
•  
•

•  
•

/

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•

8 /

•  
•  
•  
•

•  
•  
•  
•

,2

3

VDO

:

o

-7

o

-5

(

)

•

).

(

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(

-

•

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(

/ )

-

,

400 ,

(

)

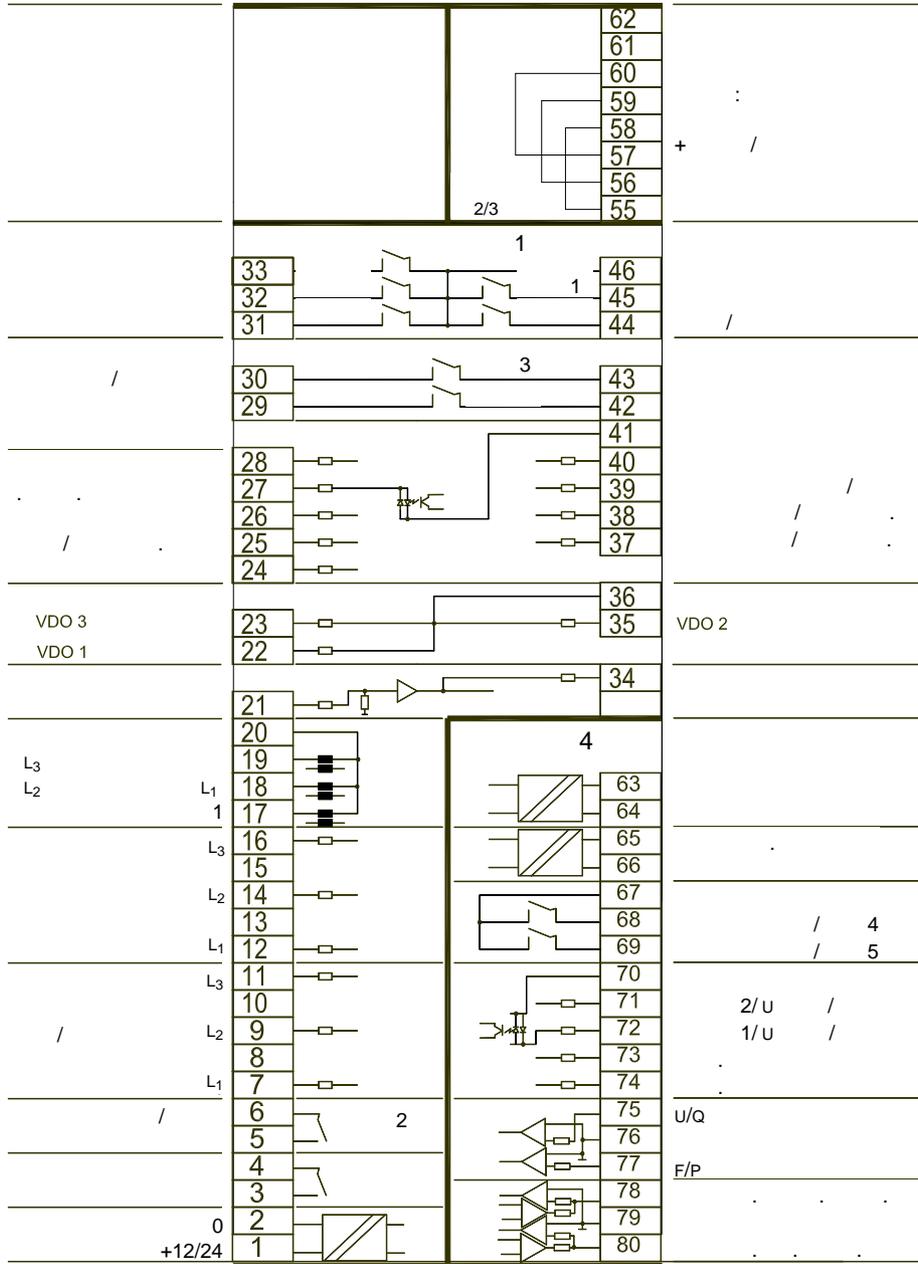


/ BGC

1, 2, 3 4.

2 3

2 3



4 - 9

( . ) .

2 3

2 3



BGC

**BGC**

--	--

( . . . )	
( . . . )	G2
	G3
	G2
	G2

	-			( )
( . . . )	X	X	X	X
( . . . )	X	X	X	X
	X	X		X
	X	X		X
	X	X	X	X
	X	X	X	X



5.

(AMF)

BGC  
BGC

, BGC

("mains OK delay U", "mains OK delay f"),

BGC

BGC,

. 32.

BGC,

BGC  
BGC

BGC , BGC

BGC,

. 32.

BGC, /



GB BGC

, BGC

BGC

BGC.

BGC,

. 32.

BGC, /

BGC

BGC.

BGC,

. 32.

BGC,  
/

BGC

BGC.

BGC,

. 32.

BGC,  
/

, BGC

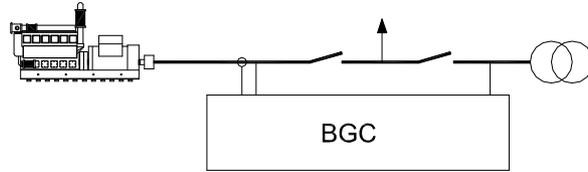
- 10%.  
, BGC

. . 32.

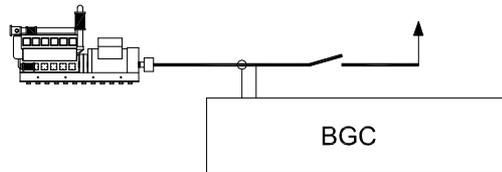
BGC,  
/

BGC.

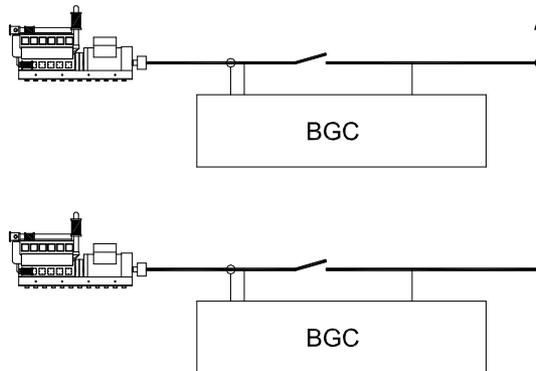
( )



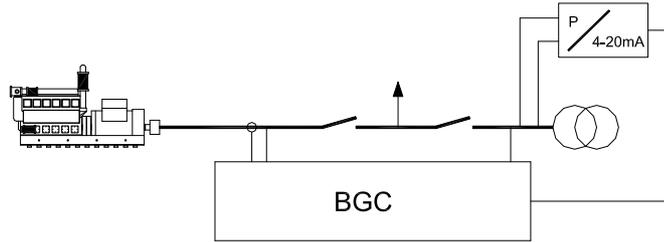
( )



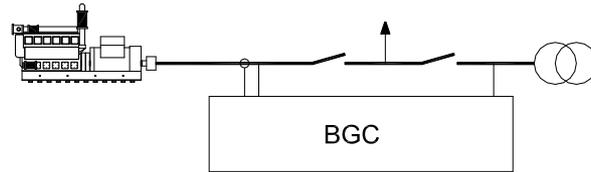
( )



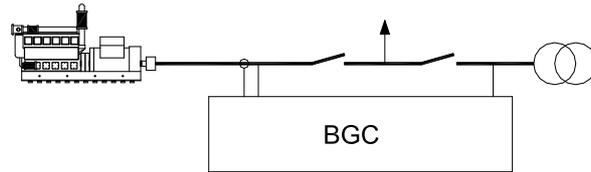
( )



( )



( )

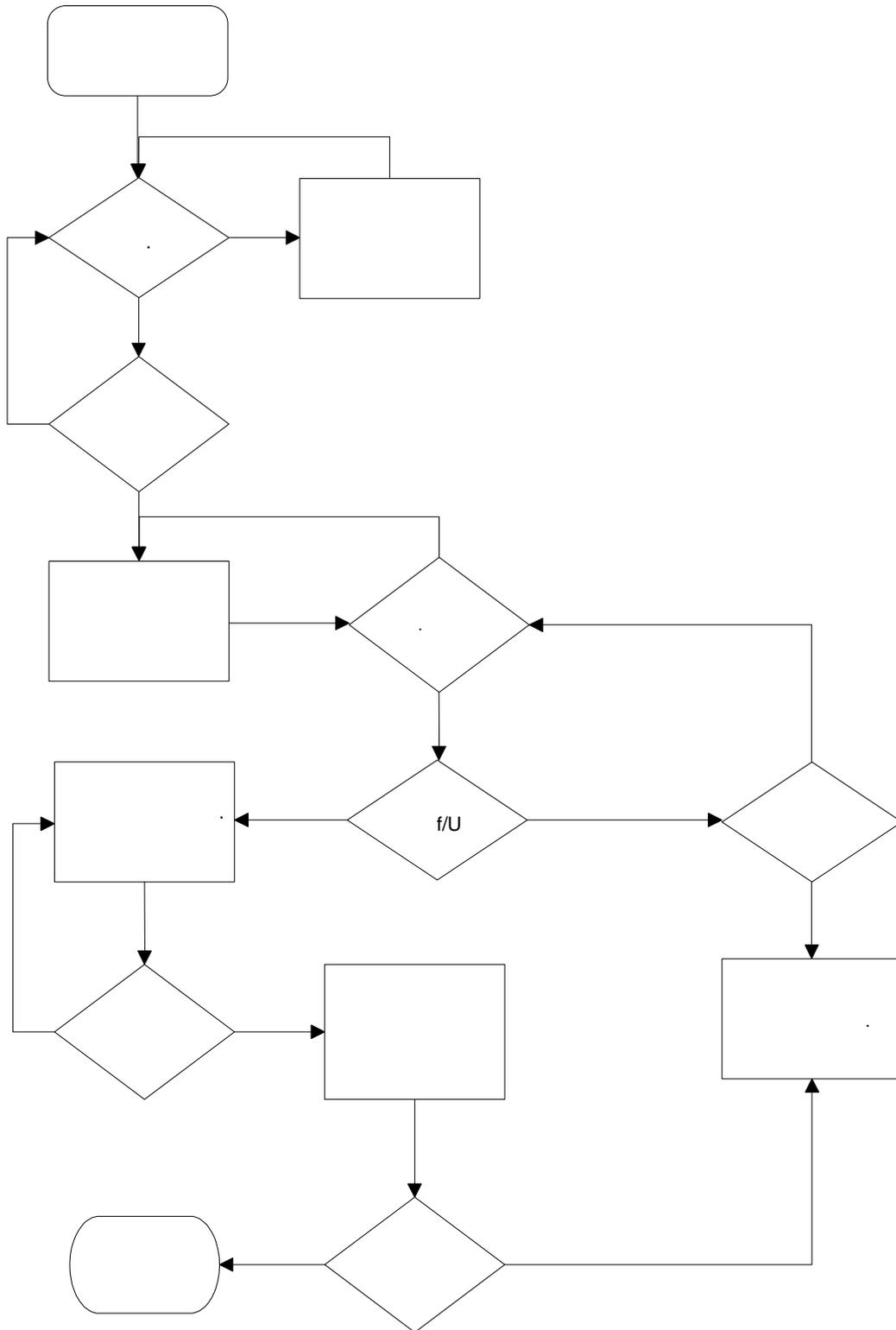


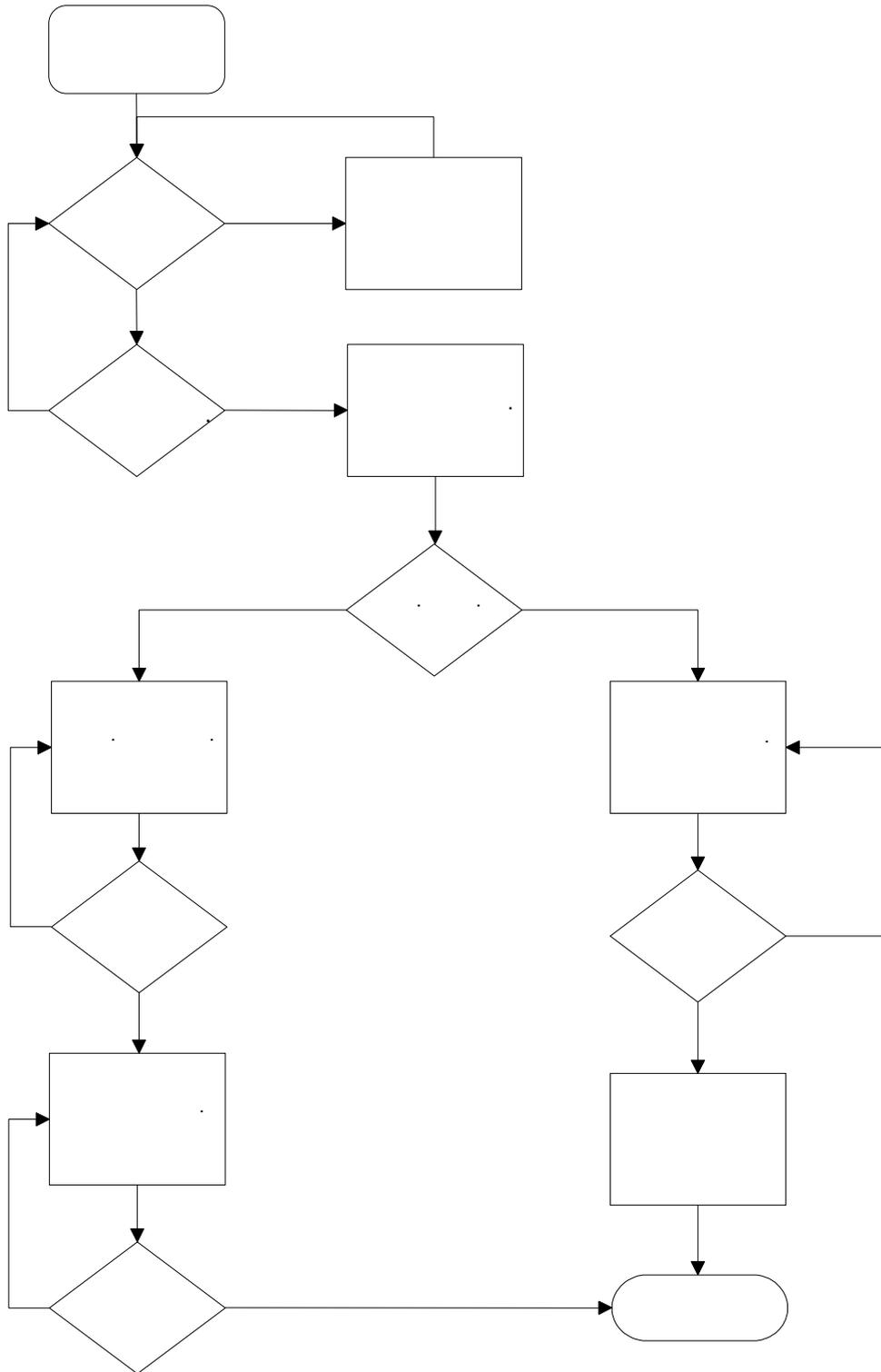


«

» ("Start engine",

4425)



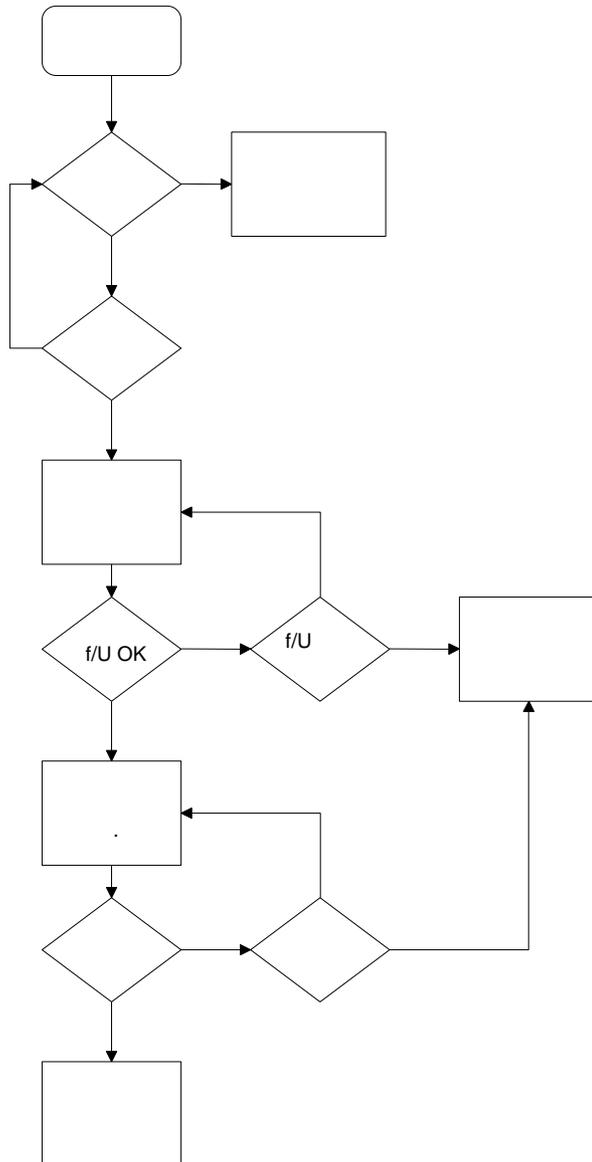


BGC ( , )  
G2 G3.

1. - BGC,
2. BGC, -



(f - 1) ( 49 /59 ), BGC





BGC

,

,

,

.

(“Start enable”).

).

5.

4-

20



129 x 248 ( ).

INFO:

JUMP:

BGC.

JUMP

( . ).

VIEW:

SETUP, JUMP, INFO

LOG ( . . )).

LOG:

150

BGC.

BGC).



SEL:



BACK:

START:

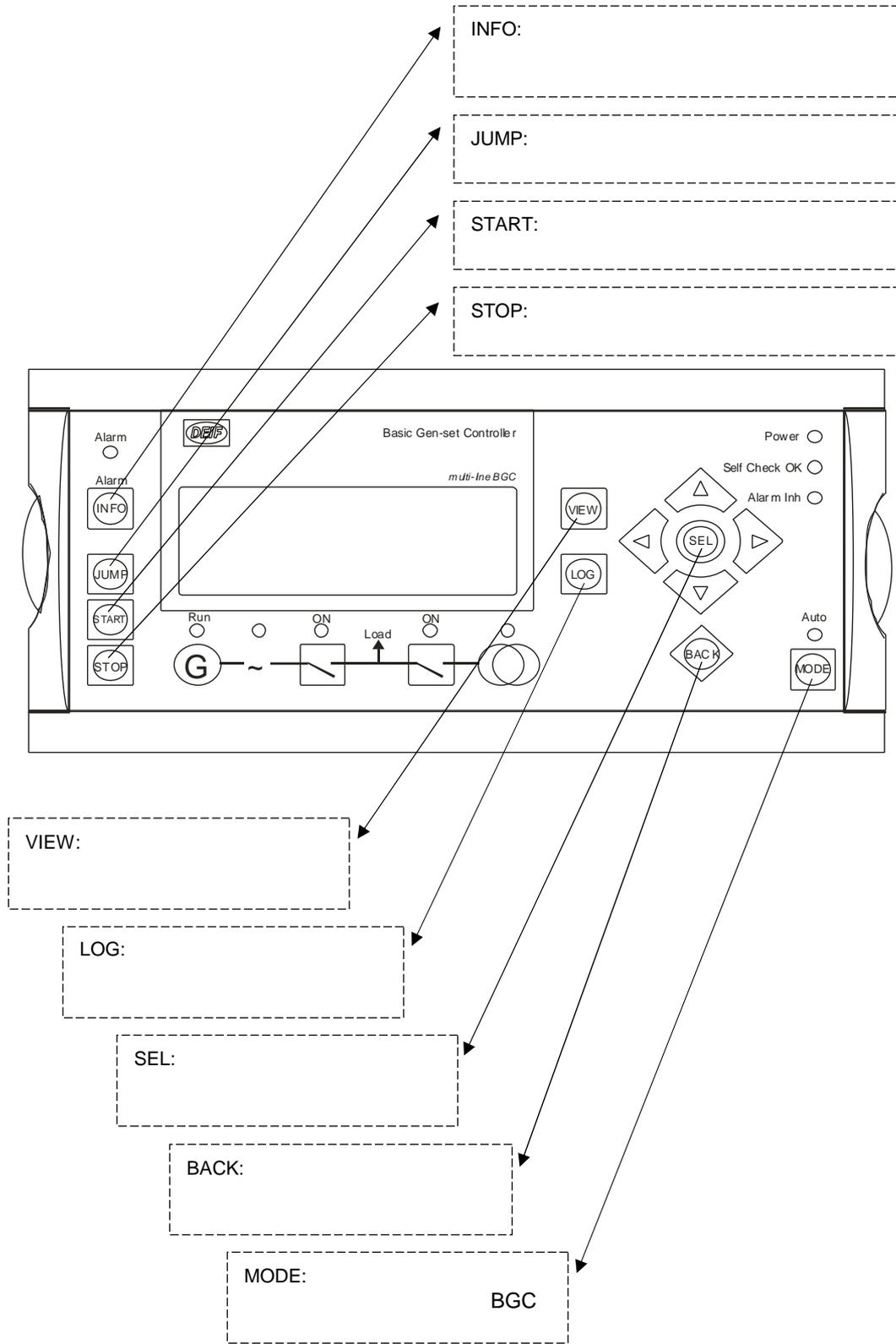
STOP:

(GB) ON:

(MB) ON:

MODE:

BGC:



ALARM:

POWER: ( ).

Self check OK: BGC -, BGC

ALARM INH:

RUN: ( ).

(GEN.) OK: ( ).

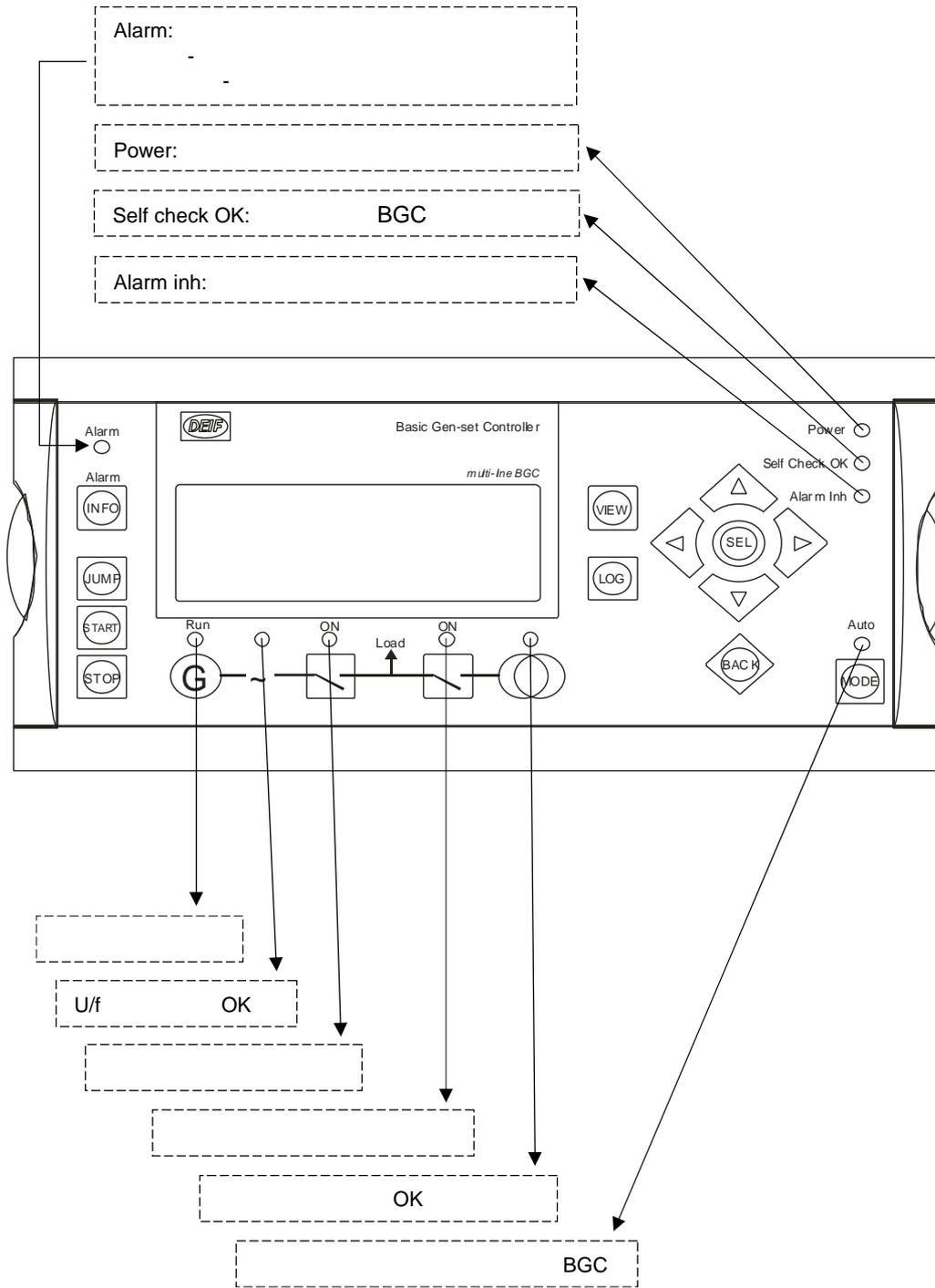
(GB) ON: ( ).

(MB) ON: ( ).

(MAINS) OK: - .  
- .

AUTO:

BGC.



BGC



BGC

BGC.

3-

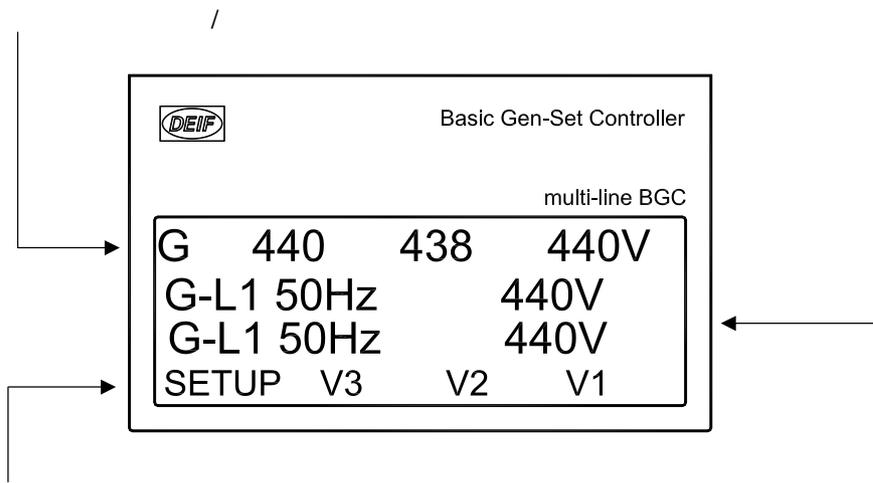
BACK.



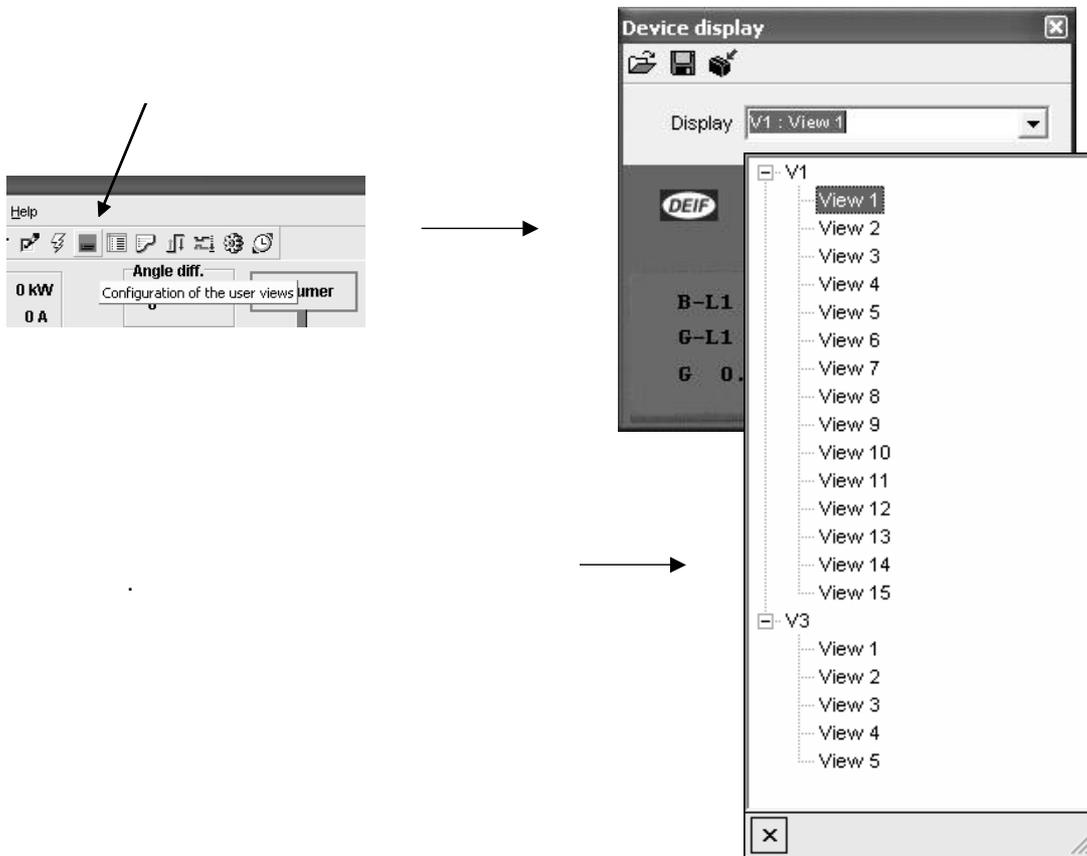
BGC

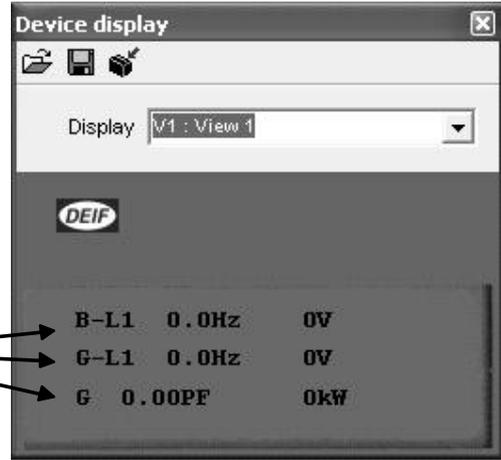
	Basic Gen-Set Controller
	multi-line BGC
<b>Gov FIXED FREQ. Int</b>	
G 0.80i	PF 745kW
G 931kVA	559kvar
SETUP	<u>V3</u> V2 V1

(V1, V2 V3)



(Utility Software),





BGC

. 27

3-

"No text" (« »),



15

V1 5

V3.

	V1
1	
2	/
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

V2		V3	
BGC		BGC	
:		:	
1.	1 ( )	1.	1 ( )
2.	2 ( .)	2.	2 ( .)
3.	3 ( / )	3.	3 ( / )
4.	4	4.	4
5.	5 ( *)	5.	5 ( *)
	.		.
		1	
		1...5.	2
		3 -	

[-] V1
[-] V3

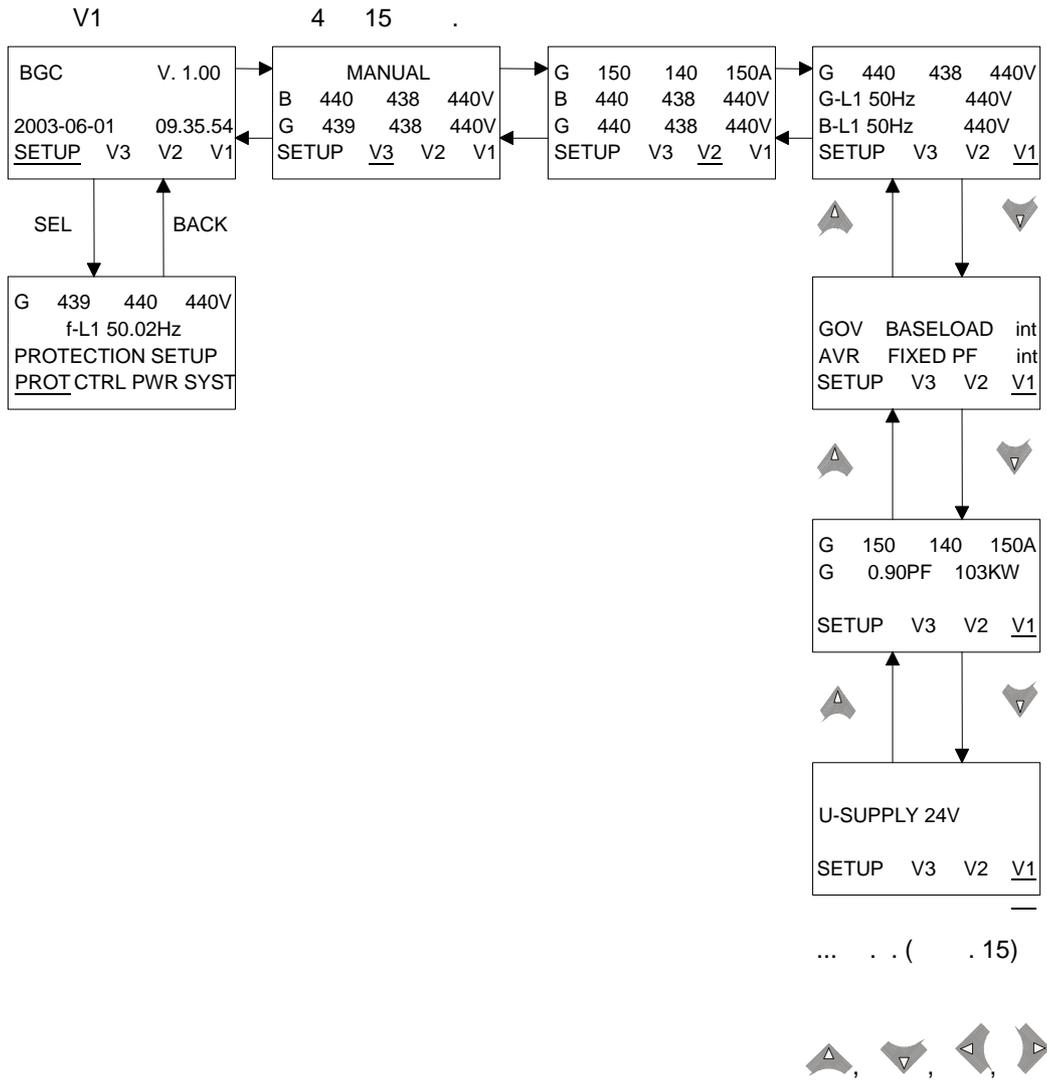
- View 1
- View 2
- View 3
- View 4
- View 5
- View 6
- View 7
- View 8
- View 9
- View 10
- View 11
- View 12
- View 13
- View 14
- View 15

- View 1
- View 2
- View 3
- View 4
- View 5

[-] X

\*

,



4-

BGC

:

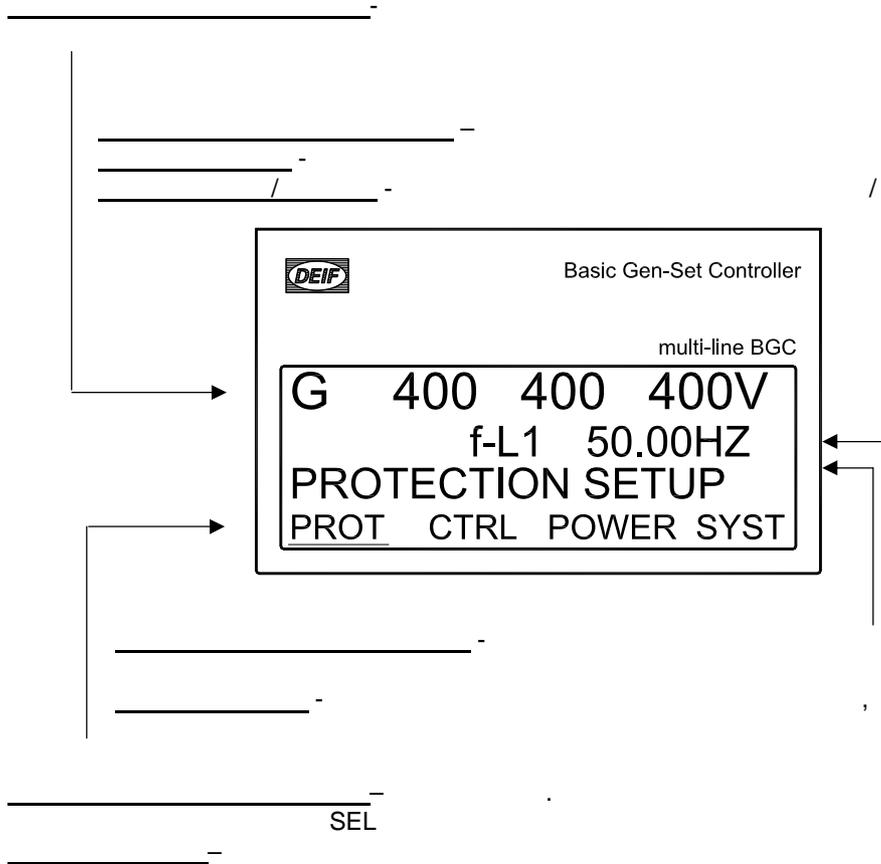
- - «SETUP»:
  - (PROT)
  - (CTRL)
  - (POWER)
  - (SYST)
- V3 – ,
- V2– BGC
- V1– ,

		<i>I</i>		
			L1-N (VAC)	1
			L2-N (VAC)	2
			L3-N (VAC)	3
			L1-L2 (VAC)	4
			L2-L3 (VAC)	5
			L3-L1 (VAC)	6
			max. (VAC)	7
			min. (VAC)	8
L1 (A)		(Hz)	L1-L2 ( . )	PT 100 .1
L2 (A)				PT 100 .2
L3 (A)			( . )	
L1 (Hz)		(VDC)		
L2 (Hz)				
L3 (Hz)				
	(kW)			
	(kvar)			
	(kVA)			
	(kWh)			
			L1-L2 ( . )	
			L2-L3 ( . )	
			L3-L1 ( . )	
	(h)			

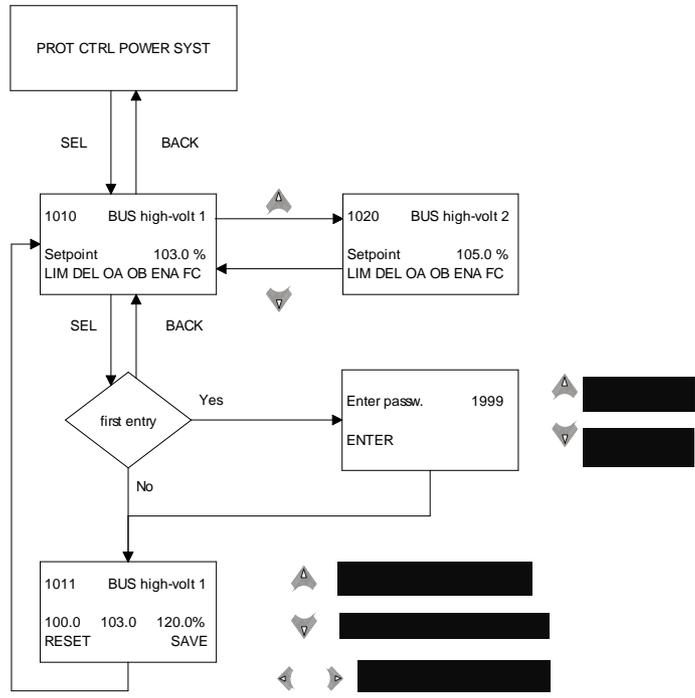
BGC

SETUP

«SEL».



1010.



**BGC**

BGC

( , , , )

).

BGC

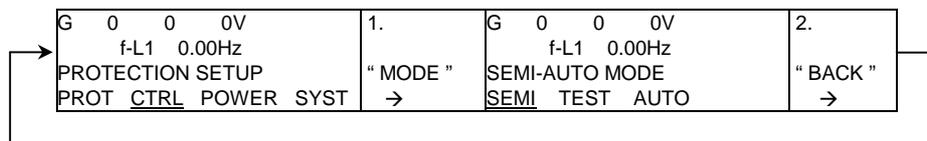
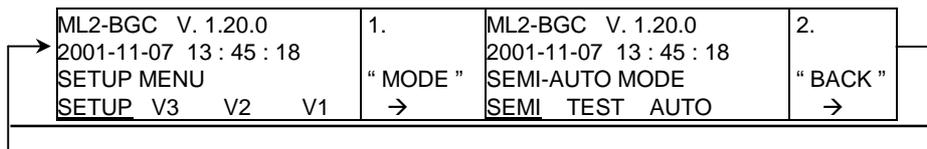
GB ON

, BGC /

/ )

MODE

“BACK”,



“SEL”,

( )

ML2-BGC V. 1.20.0 2001-11-07 13:45:18 SETUP MENU SETUP V3 V2 V1	3. "MODE" →	ML2-BGC V. 1.20.0 2001-11-07 13:45:18 SEMI-AUTO MODE SEMI TEST AUTO	4. "SEL" →
--	-------------------	--	------------------

G 0 0 0V f-L1 0.00Hz PROTECTION SETUP PROT CTRL POWER SYST	3. "MODE" →	G 0 0 0V f-L1 0.00Hz SEMI-AUTO MODE SEMI TEST AUTO	4. "SEL" →
---	-------------------	---	------------------

BGC

(Utility Software),

BGC.

(Customer)	2000	X		
(Service)		X	X	
(Master)		X	X	X

(Utility Software).

**Parameter "Reverse power" (Channel 1090)**

**Setpoint :**  
-50 -5 % 0

**Timer :**  
0,1 10 sec 100,0

**Fail class :** Trip and stop

**Output A :** Relay 0

**Output B :** Relay 0

**Password level :** Master

Enabled: ON

High Alarm

Inverse proportional

Time elapsed: 0 sec (0 %)

0 sec 10 sec

Write OK Cancel

Utility Software

:



6.

BGC.

/

BGC

8

4710-4780.

: (MO, TU, WE, TH, FR, SA, SU)

- o MO, TU, WE, TH ( , , , )
- o MO, TU, WE, TH, FR ( , , , , )
- o MO, TU, WE, TH, FR, SA, SU ( , , , , , , )
- o SA, SU ( , )

«Timer OFF» «Timer ON» ( ) BGC:

«Timer ON», - «Timer OFF».

MODE

G2/G3 ( ),

3070:

- 3072: Timer.
- 3071: Limit
- 3073: Tesy sync

BGC

BGC

BGC,

START:

( )

'MB closed'

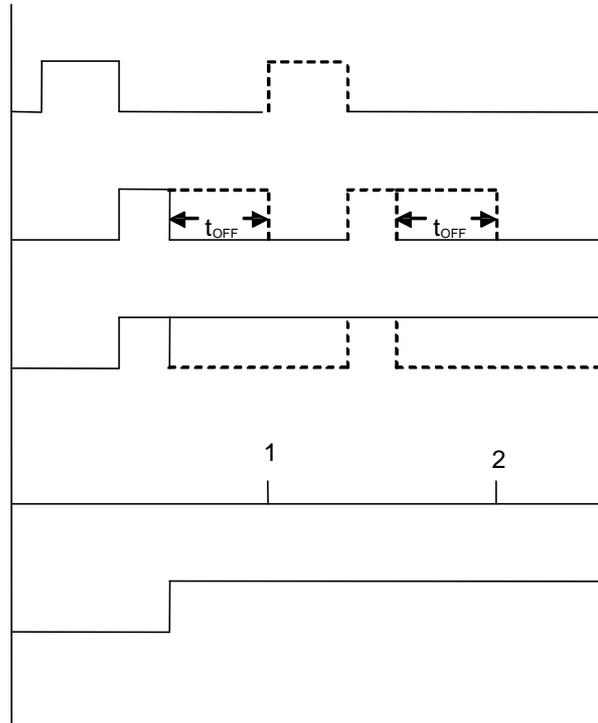
(Not used),

12/24

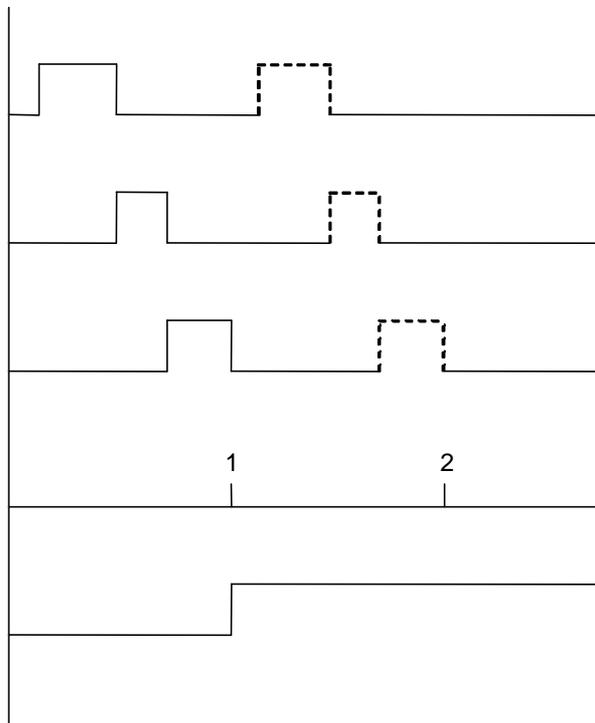
- 'Mains breaker failure'.

BGC ( , ).

: /



: /





:

	4351
	30
BGC 30% U	,
	,
	,
STOP	
START	/ ( )



4351.

( 26 )

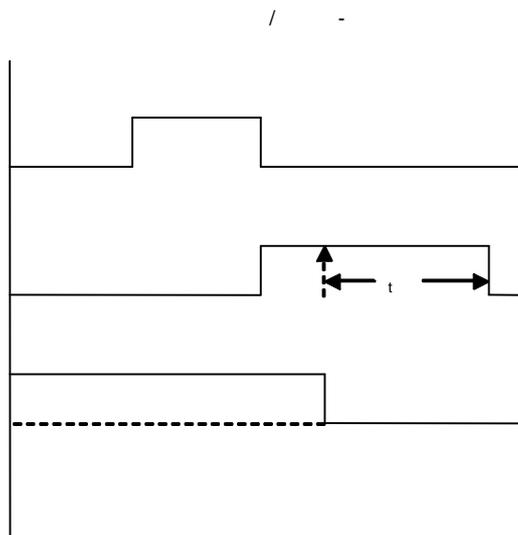
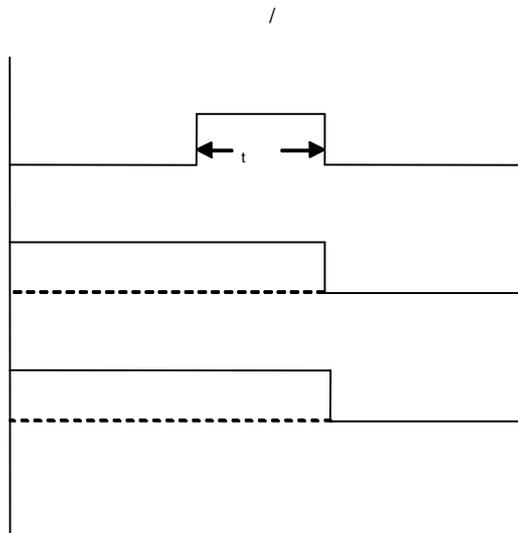
- ( 4370).

4370. A

(OA) B (OB)

( 4364)

BGC :

	X	X	
	X	X	
- /		X	
STOP		X	
		X	/

		X	

:

	/
START	,
	/

« »

BGC

4410. A (OA) B

(OB)

/

BGC:

		BGC
		,

U f

2050.

BGC

:



BGC

GB

:

MB,

BGC,

,

,

:

( 4420).

eng.+ open MB) / (Start	
(Start engine)	,

/

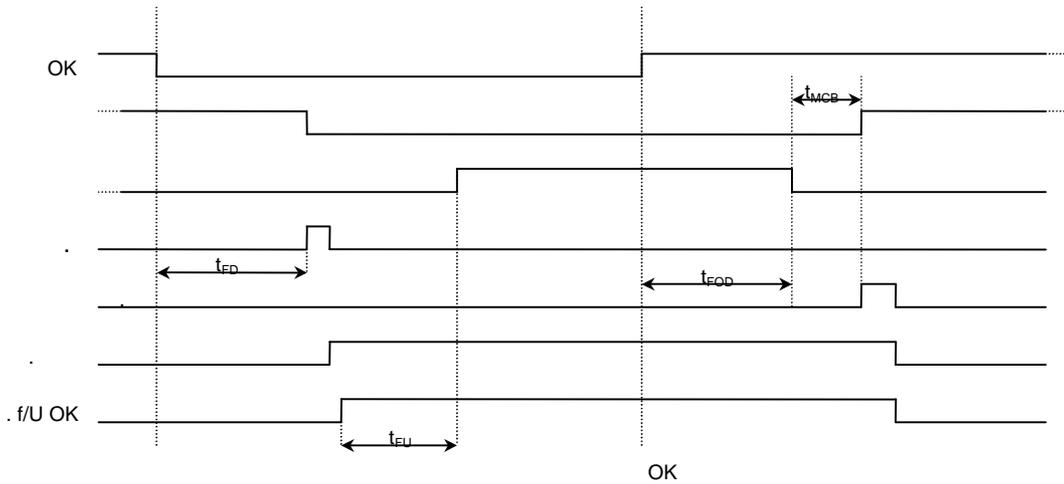
/

/

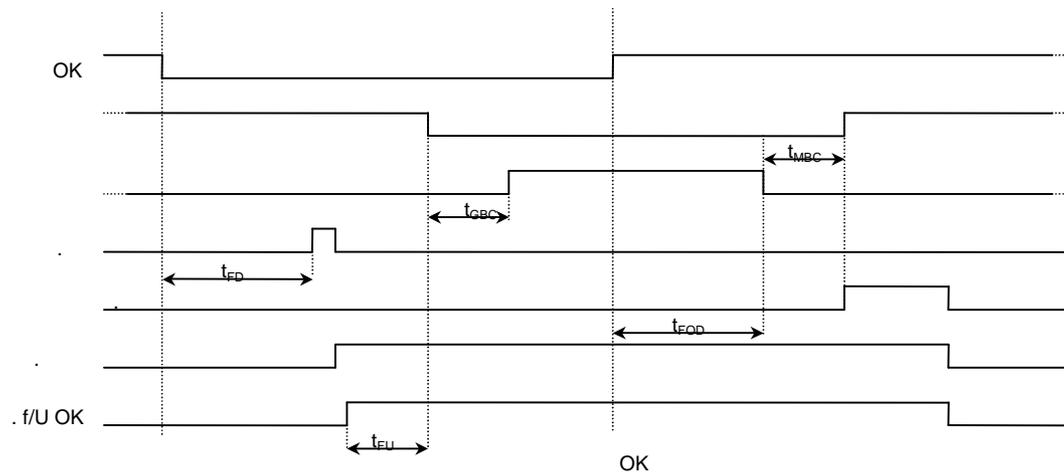
$t_{FD}$		4421/4431
$t_{FU}$	/	4381
$t_{FOD}$		4422/4432
$t_{GBC}$		4461
$t_{MBC}$		4442

$t_{MBC}$  , ( 4443).

1: 4425 - Start eng.+ open MB ( / ):



2: 4425 - Start engine ( ):



/

/ .  
/  
:

	/
	/
,	/
,	/
	:
,	/ :

**BGC**

BGC

4030

**Emergency Operation - ( 4031)**

( . ).

**Collective fault - ( 4032)**

BGC

**Ready for operation - ( 4033)**

( . ), BGC (

BGC

( . ).

11

Utility Software.

BGC

BGC

( 4240).

,



(

:

,

*BGC*).



:

11



:

*BGC*



:

11

(

).

(Utility Software)

*Translations* ( )

( . ):



Status	Master	Translations :
	BGC	Language 1
	G #####	Language 2
	G ##### V	Language 3
	G #####	Language 4
	G ## # ## # #kV	Language 5
	G ## # kV	Language 6
	G ## # ## #kV	Language 7
	B #####	Language 8
	B ##### V	Language 9
	B #####	Language 10
	B ## # ## # #kV	Language 11
	B ## # kV	
	B ## # ## #kV	
	G #####	
	G ##### A	
	G #####	
	G ## #C PF #####N	
	G ## #C PF #####N	
	G ## #C PF ## ##N	
	G ## #C PF ## ##N	
	G #####/A ## ##Nvor	
	Mains P #####N	
	Oil P ##psi ## #bar	
	VDO 1 = Level switch	
	Cool. Temp.### #C	
	VDO 2 = Level switch	
	Fuel level #####%	
	Tacho #####rpm	
	Run Time #####H ##M	

PAGE DOWN/UP

:

(Tacho).

- 'Tacho' 'Omdr\_pr\_min'
- 'RPM' 'Omdr'

	VDO 2 = Level switch
	Fuel level #####%
→	Tacho #####rpm
	Run Time #####H ##M

tacho

Translations :	
Language 1	Omdr_pr_min####Omdr
Language 2	
Language 3	
Language 4	
Language 5	
Language 6	
Language 7	
Language 8	
Language 9	
Language 10	
Language 11	

#####

( BGC. )

BGC

BGC

	1 1		5
		-	7



1		X	X	X	X
2					
3		X	X	X	X
4					
5		X	X	X	X
6		X	X	X	X
7		X	X	X	X
8		X	X	X	X
9		X	X	X	X
10		X	X	X	X
11	/	X			
12					
13					X
14					X
15					X
16					X
17	f/P	X	X		
18	U/Q	X	X		
19			X		
20		X	X	X	X
21	1....7	X	X	X	X
22		X	X	X	X
23		X		X	

**BGC**

1. Fire pump ( )

BGC

( C1).

2. Generator breaker closed feedback ( )

3. Generator breaker open feedback ( )  
( )

- 4. Mains breaker closed feedback ( )
- 5. Mains breaker open feedback ( )
- 6. Engine running feedback ( )
- 7. Start enable ( )
- 8. Emergency stop ( )
- 9. Ext. communications control ( )  
BGC
- 10. Alarm acknowledge ( )
- 11. Start/stop input ( / )  
BGC
- 13. Manual GOV increase ( )
- 14. Manual GOV decrease ( )
- 15. Manual AVR increase ( )
- 16. Manual AVR decrease ( )
- 17. External f/P setpoint ( f/P) f/U ( 4).
- 18. External U/Q setpoint ( U/Q) U/Q ( 4).
- 19. Deload ( )

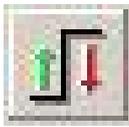
20. Parameter shift ( )  
( BGC ).

21. Digital inputs 1 ... 7 ( 1...7 )  
( ).

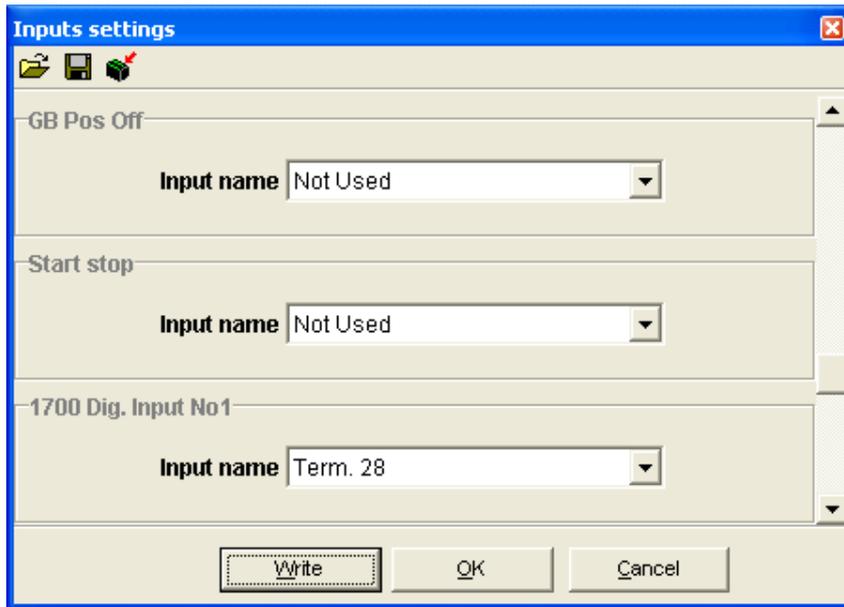
22. Access lock ( ) , BGC:  
,

23. Mode shift ( ) : -  
( ). 4441

(Utility Software).



. Not used –



VDO

BGC  
VDO.

VDO 1:  
VDO 2:  
VDO 3:

**VDO 1**

VDO

	VDO		
	Type 1	Type 2	Configurable
0	10.0	10.0	
0.5	27.2		
1.0	44.9	31.3	
1.5	62.9		
2.0	81.0	51.5	
2.5	99.2		
3.0	117.1	71.0	
3.5	134.7		
4.0	151.9	89.6	
4.5	168.3		
5.0	184.0	107.3	
6.0		124.3	
7.0		140.4	
8.0		155.7	
9.0		170.2	
10.0		184.0	



8

	VDO
	level switch
>200	
<200	

**VDO 2**

VDO

	VDO			
	Type 1	Type 2	Type 3	Configurable
°C				
40	291.5	480.7	69.3	
50	197.3	323.6		
60	134.0	222.5	36.0	
70	97.1	157.1		
80	70.1	113.2	19.8	
90	51.2	83.2		
100	38.5	62.4	11.7	
110	29.1	47.6		
120	22.4	36.8	7.4	
130		28.9		
140		22.8		
150		18.2		



8

VDO	
level switch	
<1.7k	
>1.7k	

VDO 3

VDO

VDO	
Type 1	
0%	78.8
100%	1.6

VDO	
Type 2	
0%	3
100%	180

VDO	
onfigurable	
%	
0	
10	
20	
30	
40	
50	
60	
70	
80	
90	
100	



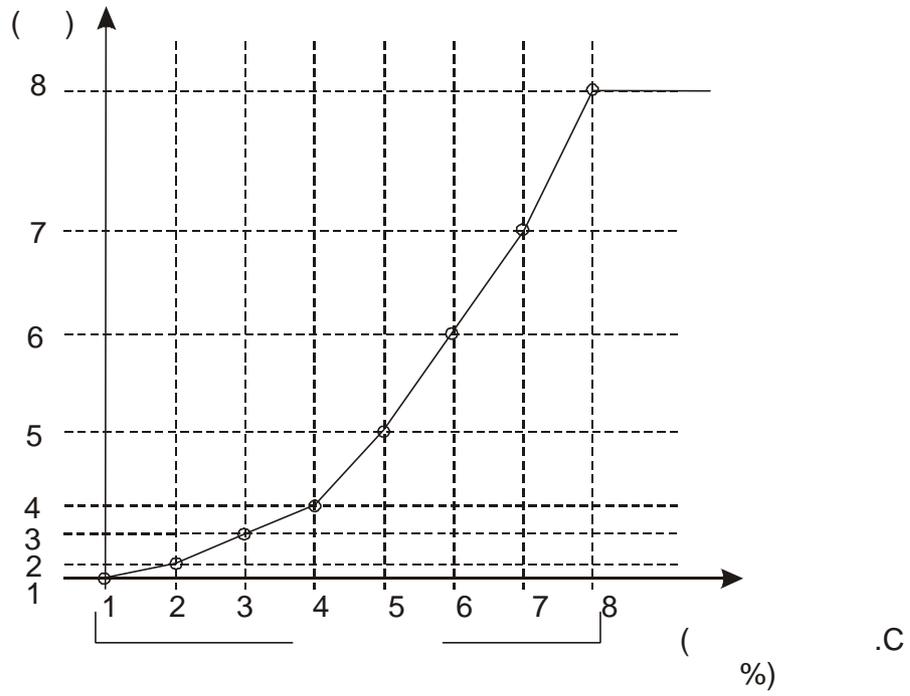
8

**VDO**

VDO

VDO 1 -  
: 1350/1360  
VDO 2:  
: 1370/1380  
VDO 3: -  
: 1390/1410

( .2).

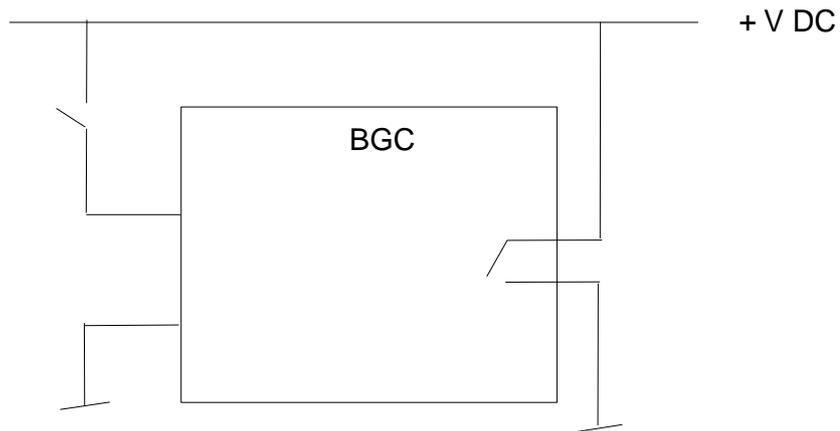
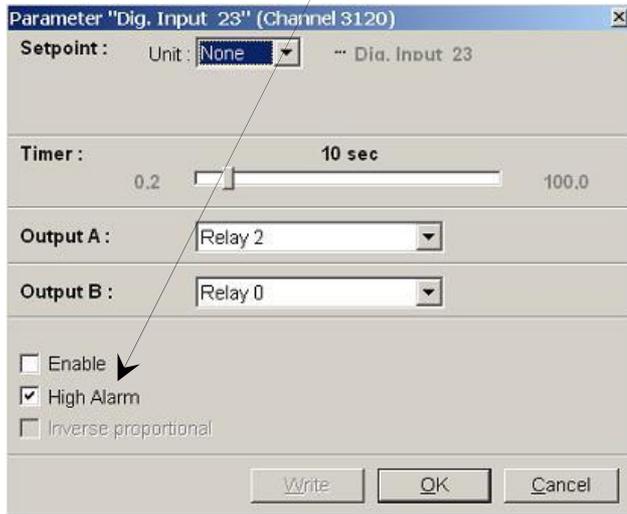


VDO

BGC.

1. BGC - ( )
2. BGC - ( )

High alarm



BGC,

(Fail class).

BGC

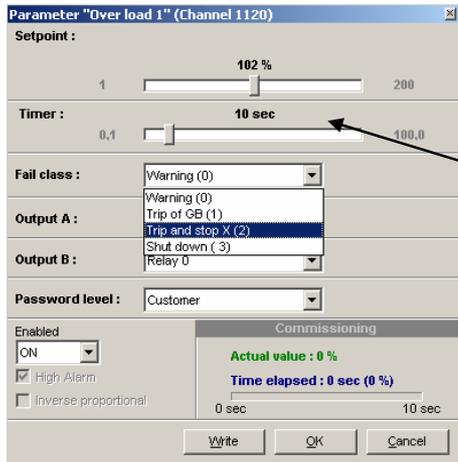
5

:

<b>(Fail Class)</b>							
(Alarm)	X	X	X				
(Warning)		X					
(Trip GB)	X	X			X		
(Trip and stop)	X	X		X	X	X	
(Shut down)	X	X			X		X

BGC,

Fail class



BGC

BGC:

	1	2
	4011	4021
	4012	4022
	4013	4023
	4014	4024
	1420	1430

BGC (Parameter shift).

1. , 2.

	1	2
	1421	1431
	1422	1422
A	1423	1423
B	1424	1424
	1425	1425
	1426	1426

BGC

- 4910 – 1  
4920 – 2

JUMP.

1. , ( );  
2. ,

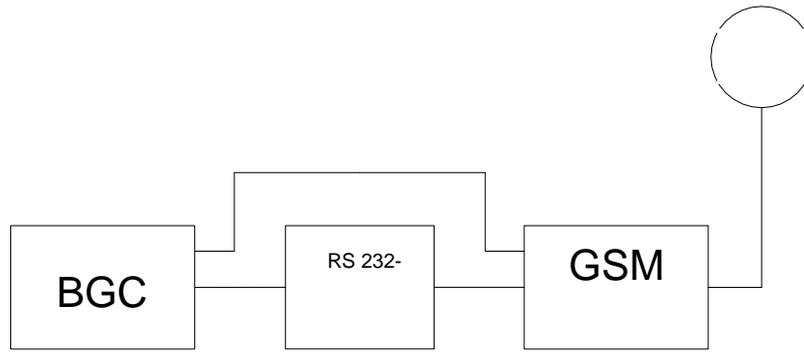
BGC

( - (Reset) ). ON.

BGC

**GSM-**

BGC GSM- BGC SMS-  
( 5- )  
BGC GSM- Siemens MC35 ( 900/1800 ).

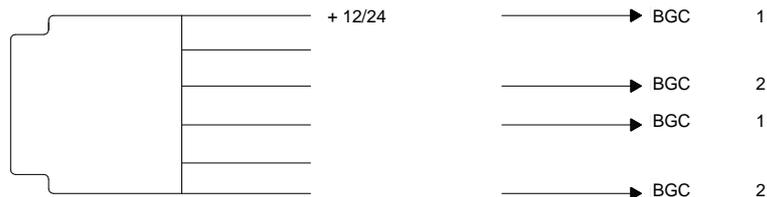


DEIF A/S

Siemens MC35, . .

BGC GSM RS-232 ( J5).

GSM BGC ( ).



	GSM PIN	PIN GSM	
4790	12345678901		
5111	12345678901	1	
5121	12345678901	2	
5131	12345678901	3	
5141	12345678901	4	
5151	12345678901	5	



'+' '00', +7

**PIN**

). PIN BGC PIN ( 4790.

GSM-

GSM-

BGC,

Utility Software.

BGC

RTU

ASCII.

6020.

). «1»

ASCII

JUMP (

6020

No.				
6020	Service port		0 ( )	1 ( ) 0

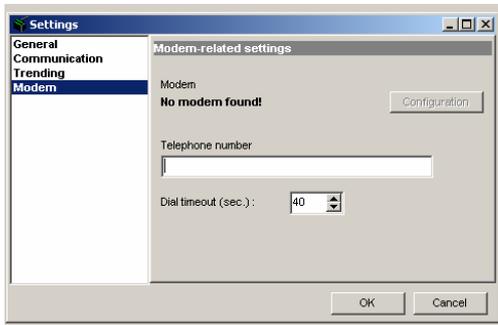


6020

1

BGC

BGC



BGC,

BGC

( C1).

- 
- 

1 1290  
2 1300

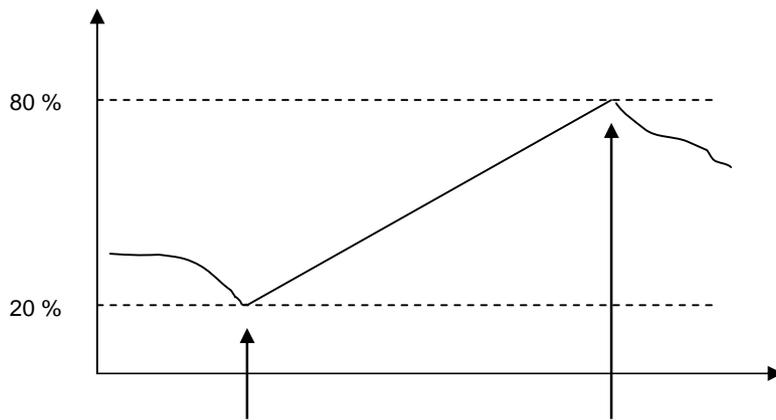
50...350%

10%.

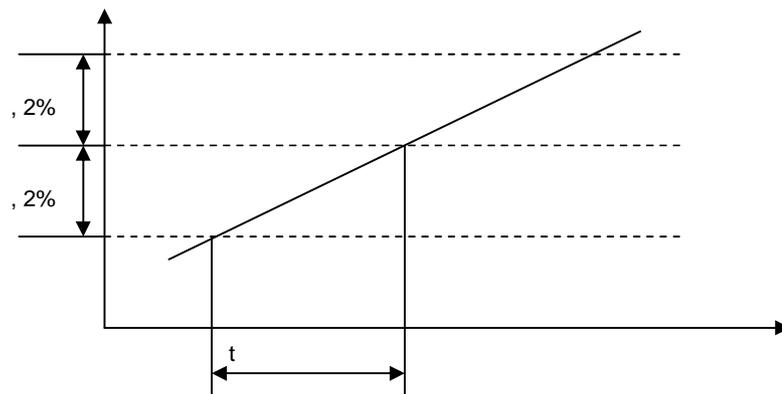
1%.

- 1401 - 20%
- 1402 - 80%

R1 ( , BGC



2%, BGC (1405) Fuel fill alarm.



# 7.

**Parameter list**

This section includes a complete standard parameter list. Therefore, this part of the handbook is to be used for reference, when specific information about the individual parameters is needed for the setup of the BGC.

The parameter lists for the available options are presented in the documents **Description of options** describing the individual options in detail.

**Overview list**

<b>Protection</b>	P. 51	4090 Ex. comm. error	P. 56
1050 Reverse power	P. 51	4100 Engine comms.	P. 56
1100 Overcurrent 1	P. 51	4110 Date and time	P. 57
1110 Overcurrent 2	P. 51	4120 Counters	P. 57
1300 VDO 1.1	P. 52	4220 Battery low voltage	P. 57
1300 VDO 1.2	P. 52	4230 Battery high voltage	P. 57
1370 VDO 2.1	P. 52	4240 Language	P. 57
1380 VDO 2.2	P. 52	4320 Gen-set mode	P. 57
1390 Fuel level 1	P. 52	4350 Tacho config.	P. 57
1400 Fuel pump logic	P. 53	4360 Starter	P. 58
1410 Fuel level 2	P. 53	4370 Start attempts	P. 58
1420 Overspeed	P. 53	4380 I/O OK	P. 58
1430 Overspeed S2	P. 53	4390 I/O failure	P. 58
1440 Engine failure	P. 53	4400 Stop	P. 58
1450 Emergency stop	P. 53	4410 Stop failure	P. 58
1490 Fuel level 3	P. 54	4420 Mains failure U	P. 59
1700 Dig. input no. 1	P. 54	4430 Mains failure f	P. 59
1710 Dig. input no. 2	P. 54	4440 MB control	P. 59
1720 Dig. input no. 3	P. 54	4450 Alarm horn	P. 59
1730 Dig. input no. 4	P. 54	4460 GB control	P. 59
1740 Dig. input no. 5	P. 54	4810 Relay 1	P. 59
1750 Dig. input no. 6	P. 54	4820 Relay 2	P. 59
1760 Dig. input no. 7	P. 54	4830 Relay 3	P. 59
1860 Run status	P. 54	4840 Relay 4	P. 59
1870 W/L input	P. 54	4850 Relay 5	P. 59
1880 Static charger	P. 54	4710 Startstop cmd 1	P. 60
<b>Control</b>	P. 55	4720 Startstop cmd 2	P. 60
2070 Test	P. 55	4730 Startstop cmd 3	P. 60
3080 Fixed power set point	P. 55	4740 Startstop cmd 4	P. 60
<b>System</b>	P. 55	4750 Startstop cmd 5	P. 60
4010 Nom. settings 1	P. 55	4760 Startstop cmd 6	P. 60
4020 Nom. settings 2	P. 55	4770 Startstop cmd 7	P. 60
4050 Transformer gen.	P. 56	4780 Startstop cmd 8	P. 60
4060 Transformer bus	P. 56	4790 GSM pin code	P. 60
4070 Comm. control	P. 56	4910 Service timer 1	P. 60
4080 Ex. comm. ID	P. 56	4920 Service timer 2	P. 60

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No.					
1491		LIM	0.0 bar	10.0 bar	4.0 bar
1492		DEL	0.0 s	100.0 s	5.0 s
1493	A	OA	R0 ( )	R3 ( 3)	R0 ( )
1494	B	OB	R0 ( )	R3 ( 3)	R0 ( )
1495		ACT			
1496		FC	1	5	2



BGC ( JUMP).

**1490 VDO input – Fuel level 3**

( VDO –

3)

1:

SETUP (

)

2:

PROT (

)

3:



4:

LIM ( )

5:

6:



/

7:

## 8.



			.57		4100		.2
1090			.2		4110		.2
1100	1		.2		4120		.2
1110	2		.2				
					4220		.2
1350 VDO 1.1			.2		4230		.2
1360 VDO 1.2			.2		4240		.2
1370 VDO 2.1			.2				
1380 VDO 2.2			.2		4320		.2
1390		1	.2		4350		.2
1400			.2		4360		.2
1410		2	.2		4370		.2
1420			.2		4380 f/U		.2
1430	S2		.2		4390	. f/U	.2
1440			.2		4400		.2
1450			.2		4410		.2
					4420	. U	.2
1490		3	.2		4430	. f	.2
					4440		.2
1700		1	.2		4450		.2
1710		2	.2		4460		.2
1720		3	.2				
1730		4	.2		4610	1	.2
1740		5	.2		4620	2	.2
1750		6	.2		4630	3	.2
1760		7	.2		4640	4	.2
					4650	5	.2
1860			.2				
					4710	/	.1 .2
			.60		4720	/	.2 .2
2050			.2		4730	/	.3 .2
2200			.2		4740	/	.4 .2
					4750	/	.5 .2
			.60		4760	/	.6 .2
3070			.2		4770	/	.7 .2
3080			.2		4780	/	.8 .2
					4790 GSM pin		.2
			.61				
4010		1	.2		4910	.1	.2
4020		2	.2		4920	.2	.2
4030			.2				
4050			.2		5110		.2
4060			.2		5120		.2
4070			.2		5130		.2
4080		ID	.2		5140		.2
4090			.2		5150		.2

A:

B:

B

BGC

**1090**

No.			.	.		
1091	.	.	-50.0%	0.0%	-	-5.0%
1092	.	.	0.1 s	100.0 s	-	10.0 s
1093	.	.	A	R0 ( )	R3 ( 3)	R0 ( )
1094	.	.	B	R0 ( )	R3 ( 3)	R0 ( )
1095	.	.				
1096	.	.	1	5	-	3

**1100 1**

No.			.	.		
1101	1		50.0%	200.0%	-	115.0%
1102	1		0.1 s	100.0 s	-	10.0 s
1103	1		A	R0 ( )	R3 ( 3)	R0 ( )
1104	1		B	R0 ( )	R3 ( 3)	R0 ( )
1105	1					
1106	1		1	5	-	2

**1110 2**

No.			.	.		
1111	2		50.0%	200.0%	-	120.0%
1112	2		0.1 s	100.0 s	-	5.0 s
1113	2		A	R0 ( )	R3 ( 3)	R0 ( )
1114	2		B	R0 ( )	R3 ( 3)	R0 ( )
1115	2					
1116	2		1	5	-	3

**1350 VDO 1.1**

No.			.	.	
1351	VDO 1.1		0.0 bar	10.0 bar	4.0 bar
1352	VDO 1.1		0.0 s	100.0 s	5.0 s
1353	VDO 1.1	A	R0 ( )	R3 ( 3)	R0 ( )
1354	VDO 1.1	B	R0 ( )	R3 ( 3)	R0 ( )
1355	VDO 1.1				
1356	VDO 1.1		1	5	2

**1360 VDO 1.2**

No.			.	.	
1361	VDO 1.2		0.0 bar	10.0 bar	4.0 bar
1362	VDO 1.2		0.0 s	100.0 s	5.0 s
1363	VDO 1.2	A	R0 ( )	R3 ( 3)	R0 ( )
1364	VDO 1.2	B	R0 ( )	R3 ( 3)	R0 ( )
1365	VDO 1.2				
1366	VDO 1.2		1	5	2

**1370 VDO 2.1**

No.			.	.	
1371	VDO 2.1		40 °C	150 °C	100 °C
1372	VDO 2.1		0.0 s	100.0 s	5.0 s
1373	VDO 2.1	A	R0 ( )	R3 ( 3)	R0 ( )
1374	VDO 2.1	B	R0 ( )	R3 ( 3)	R0 ( )
1375	VDO 2.1				
1376	VDO 2.1		1	5	2

**1380 VDO 2.2**

No.			.	.	
1381	VDO 2.2		40 °C	150 °C	110 °C
1382	VDO 2.2		0.0 s	100.0 s	5.0 s
1383	VDO 2.2	A	R0 ( )	R3 ( 3)	R0 ( )
1384	VDO 2.2	B	R0 ( )	R3 ( 3)	R0 ( )
1385	VDO 2.2				
1386	VDO 2.2		1	5	2

**1390 VDO - 1**

No.			.	.	
1391	.	1	0 %	100 %	10 %
1392	.	1	0.0 s	100.0 s	10.0 s
1393	.	1	A	R0 ( )	R3 ( 3)
1394	.	1	B	R0 ( )	R3 ( 3)
1395	.	1			
1396	.	1	1	5	2

**1400**

No.			.	.	
1401	.	1	0 %	100 %	20 %
1402	.	2	0 %	100 %	80 %
1403	.	A	R1 ( 1)	R1 ( 1)	R1 ( 1)
1404	.				
1405	.		0.1 s	300.0 s	60.0 s

## 1410 VDO

-

2

No.			.	.	
1411	.	2		0 %	100 %
1412	.	2		0.0 s	100.0 s
1413	.	2	A	R0 ( )	R3 ( 3)
1414	.	2	B	R0 ( )	R3 ( 3)

## 1420

No.			.	.	
1421			1 RPM	2000 RPM	-
1422			0.2 s	100.0 s	-
1423		A	R0 ( )	R3 ( 3)	-
1424		B	R0 ( )	R3 ( 3)	-
1425					
1426			1	5	-

## 1430

S2

No.			.	.	
1431			1 RPM	2000 RPM	-

S2

## 1440

No.			.	.	
1441	.	.		0.0 s	180.0 s
1442	.	.	A	R0 ( )	R3 ( 3)
1443	.	.	B	R0 ( )	R3 ( 3)
1444	.	.			
1445	.	.		1	5

## 1450

No.			.	.	
1451				0.0 s	60.0 s
1452		A	R0 ( )	R3 ( 3)	R0 ( )
1453		B	R0 ( )	R3 ( 3)	R0 ( )
1454					
1455			1	5	5

## 1490 VDO

-

3

No.			.	.	
1491	.	3		0 %	100 %
1492	.	3		0.0 s	100.0 s
1493	.	3	A	R0 ( )	R3 ( 3)
1494	.	3	B	R0 ( )	R3 ( 3)
1495	.	3			
1496	.	3		1	5

## 1700-1760

## No1 – No7,

No.			.	.		
17X1	.		0.0 s	100.0 s	-	10.0 s
17X2	.	A	R0 ( )	R3 ( 3)	-	R0 ( )
17X3	.	B	R0 ( )	R3 ( 3)	-	R0 ( )
17X4	.					
17X5	.		1	5	-	2
17X6	.	/				

## 1860

No.			.	.		
1861	.		0.0 s	60.0 s		5.0 s
1862	.	A	R0 ( )	R3 ( 3)		R0 ( )
1863	.	B	R0 ( )	R3 ( 3)		R0 ( )
1864	.					

:

1.

2.

A B

4600

## 2050

f/U

-

No.			.	.		
2051	f/U	df max.	0.0Hz	5.0Hz		3.0Hz
2052	f/U	dU max.	2%	10%		5%

( "dU max." )

## 2200

No.			.	.		
2201						
2202						

## 3070

No.			.	.		
3071			1%	100%		80%
3072			0.0 s	990.0 s		300.0 s
3073						

**3080****/cosφ**

No.			.	.	
3081	.	P	0%	100%	100%
3082	.	cosφ	0.60	1.00	0.90

**4010****1**

No.			.	.	
4011	.		48.0Hz	62.0Hz	60.0Hz
4012	.		10kW	20000kW	480kW
4013	.		0A	9000A	787A
4014	.		100V	25000V	440V

**4020****2**

No.			.	.	
4021	.	2	48.0Hz	62.0Hz	60.0Hz
4022	.	2	10kW	20000kW	480kW
4023	.	2	0A	9000A	787A
4024	.	2	100V	25000V	440V

**4030**

No.			.	.	
4031			R0 ( )	R3 ( 3)	R0 ( )
4032			R0 ( )	R3 ( 3)	R0 ( )
4033			R0 ( )	R3 ( 3)	R0 ( )

**4050**

No.			.	.	
4051	.		100V	25000V	440V
4052	.		100V	690V	440V
4053	.		5A	9000A	1000A
4054	.		1A	5A	5A

**4060**

No.			.	.	
4061	.		100V	25000V	440V
4062	.		100V	690V	440V

**4070**

No.				
4071				
4072				
4073				
4074		cos		

**4080****ID**

No.				
4081	. . ID	ID	1	247
4082	. . ID		9600	19200

Profi-

**4090**

No.				
4091	. . .		1.0 s	100.0 s
4092	. . .	A	R0 ( )	R3 ( 3)
4093	. . .	B	R0 ( )	R3 ( 3)
4094	. . .			

**4100**

No.				
4101				MDEC
				DDEC
				EMR
				EDEC III
				JDEC
				ScaniaDEC

**4110**

No.				
4111			2001	2100
4112			1	12
4113			1	31
4114			0	23
4115			0	59

**4120**

No.				
4121			0	20000
4122			0	20000
4123			0	20000
4124		kWh		

**4220**

No.			.	.	
4221	V .		15.0V	24.0V	18.0V
4222	V .		0.0 s	10.0 s	1.0 s
4223	V .	A	R0 ( )	R3 ( 3)	R0 ( )
4224	V .	B	R0 ( )	R3 ( 3)	R0 ( )
4225	V .				

**4230**

No.			.	.	
4231	V .		15.0V	24.0V	18.0V
4232	V .		0.0 s	10.0 s	1.0 s
4233	V .	A	R0 ( )	R3 ( 3)	R0 ( )
4234	V .	B	R0 ( )	R3 ( 3)	R0 ( )
4235	V .				

**4240**

No.					
4241					

**4320**

No.					
4321					-
					-

**4350**

No.			.	.	
4351			1 RPM	4000 RPM	RPM
4352		-	0	500	0

0,

.2.

**4360**

No.			.	.	
4361			0.0 s	600.0 s	5.0 s
4362			1.0 s	30.0 s	5.0 s
4363			1.0 s	99.0 s	5.0 s

**4370**

No.			.	.	
4371			1	10	3
4372		A	R0 ( )	R3 ( 3)	R0 ( )
4373		B	R0 ( )	R3 ( 3)	R0 ( )

A B

**4380 f/U**

No.			.	.	
4381	f/U OK		1.0 s	99.0 s	5.0 s

2050.

**4390** f/U

No.			.	.	
4391	f/U		1.0 s	99.0 s	30.0 s
4392	f/U	A	R0 ( )	R3 ( 3)	R0 ( )
4393	f/U	B	R0 ( )	R3 ( 3)	R0 ( )

f/U,

A B.

2050.

**4400**

No.			.	.	
4401			0.0 s	999.0 s	240.0 s
4402			1.0 s	99.0 s	5.0 s
4403					

**4410**

No.			.	.	
4411			10.0 s	120.0 s	30.0 s
4412		A	R0 ( )	R3 ( 3)	R0 ( )
4413		B	R0 ( )	R3 ( 3)	R0 ( )

**4420** U ( )

No.			.	.	
4421	U		1.0 s	990.0 s	5.0 s
4422	U		10.0 s	990.0 s	60.0 s
4423	U		80%	100%	97%
4424	U		100%	120%	103%
4425	U		+	..	+

f/U

**4430** f ( )

No.			.	.	
4431	f		1.0 s	990.0 s	5.0 s
4432	f		10.0 s	990.0 s	60.0 s
4433	f		80%	100%	97%
4434	f		100%	120%	103%

**4440**

<b>No.</b>			.	.	
4441			.	- -	.
4442		$t_{MBC}$	0.0 s	30.0 s	0.5 s
4443		.	.		

**4450**

<b>No.</b>			.	.	
4451			0.0 s	990.0 s	20.0 s

0,

**4460**

<b>No.</b>			.	.	
4461		$t_{GBC}$	0.0 s	30.0 s	2.0 s

**4610...4650 1 – 5**

<b>No.</b>			/ .	/ .	
46X1	X				
46X2	X	.	0.0 s	999.9 s	5.0 s

**4710...4780 / 1...8**

<b>No.</b>			.	.	
47X1	/	x			
47X2	/	x			
47X3	/	x			
47X4	/	x	0	23	
47X5	/	x	0	59	

**4790 GSM pin**

<b>No.</b>			.	.	
4791	GSM pin	GSM pin	0	9999	0

**4910 1**

<b>No.</b>			.	.	
------------	--	--	---	---	--

4911	.				
4912	.	/	10	10000	150
4913	.	/	1	1000	365
4914	.		1	5	2
4915	.	A			
4916	.				

**4920****2**

<b>No.</b>			.	.	
4921	.				
4922	.	/	10	10000	150
4923	.	/	1	1000	365
4924	.		1	5	2
4925	.	A			
4926	.				

**5110 SMS**

<b>No.</b>			
5111		12345678901	12345678901

GSM . 2.

**5120 SMS**

<b>No.</b>			
5121		12345678901	12345678901

GSM . 2.

**5130 SMS**

<b>No.</b>			
5131		12345678901	12345678901

GSM . 2.

**5140 SMS**

<b>No.</b>			
5141		12345678901	12345678901

GSM . 2.

**5150 SMS**

<b>No.</b>			
5151		12345678901	12345678901

GSM . 2.

DEIF A/S