

InteliGen 200

Controller for parallel gen-set applications

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Operator Guide



1 Front panel elements



Image 1.1 Operator interface of InteliGen 200

Control buttons				
Position	Picture	Description		
1		LEFT button. Use this button to move left or to change the mode. The button can change the mode only if the main screen with the indicator of currently selected mode is displayed.		
		Note: This button will not change the mode if the controller mode is forced by one of binary inputs listed in the Reference Guide – "Operating modes" chapter.		
2		RIGHT button. Use this button to move right or to change the mode. The button can change the mode only if the main screen with the indicator of currently selected mode is displayed. <i>Note:</i> This button will not change the mode if the controller mode is forced by one of binany inputs listed in the Reference Guide – "Operating modes"		
		chapter.		
3		HORN RESET button. Use this button to deactivate the horn output without acknowledging the alarms.		



4		FAULT RESET button. Use this button to acknowledge alarms and deactivate the horn output. Inactive alarms will disappear immediately and status of active alarms will be changed to "confirmed" so they will disappear as soon as their reasons dismiss.				
5		UP button. Use this button to move up or increase value.				
6		PAGE button. Use this button to switch over display pages.				
7		DOWN button. Use this button to move down or decrease value.				
8		ENTER button. Use this button to finish editing a setpoint or moving right in the history page.				
9	Ι	START button. Works in MAN mode only. Press this button to initiate the start sequence of the engine.				
1	0	STOP button. Works in MAN mode only. Press this button to initiate the stop sequence of the gen-set. Repeated pressing of button will cancel current phase of stop sequence (like cooling) and next phase will continue.				
1	1/0	GCB button. Works in MAN and TEST modes only. Press this button to open or close the GCB or start synchronization manually.				
12	1/0	MCB button. Works in MAN and TEST modes only. Press this button to open or close the MCB or start the reverse synchronization manually.				
Indicators	rs and others					
Position	Description					
B	GENERATOR status indicator. There are two states - Gen-set OK (indicator is green) and Gen- set failure (indicator is red). Green LED is on if the generator voltage is present and within limits. Red LED starts flashing when gen-set failure occurs. After FAULT RESET button is pressed, goes to steady light (if an alarm is still active) or is off (if no alarm is active).					
14	GCB ON . Green LEDs are on if GCB is closed and Gen-set is healthy. If Gen-set is not healthy and GCB is closed than middle LED is on. It is driven by GCB CLOSE/OPEN output or by GCB feedback signal.					



15	LOAD . Green LED is ON if load is supplied by mains or by generator. It means, that Gen-set or mains is OK and proper circuit breaker is closed.
16	MCB ON . Green LEDs are on if MCB is closed and Mains is healthy. If Mains is not healthy and MCB is closed than middle LED is on. It is driven by MCB CLOSE/OPEN output or by MCB feedback signal.
1	MAINS status indicator. There are two states - Mains OK (indicator is green) and Mains failure (indicator is red). Green LED is on, if mains is present and within limits. Red LED starts blinking when the mains failure is detected and after the gen-set has started and connected to the load it lights permanently until the mains failure disappears.
18	Graphic B/W display, 132x64 pixels.



2 Display screens and pages structure

The displayed information is structured into "pages" and "screens". Use PAGE button to switch over the pages.

- The page Measurement consists of screens which display measured values like voltages, current, oil pressure etc., computed values like i.e. gen-set power, statistic data and the alarm list on the last screen.
- The page Setpoints contains all setpoints organized to groups and also a special group for entering password.
- > The page History log shows the history log in the order that the last record is displayed first.

2.1 Main Screen



2.1.1 Symbols

- Padlock active when LBI ACCESS LOCK is active
- R active when there is active remote connection to controller
- Exclamation mark active when there is any alarm in alarmlist

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2.2 Measurement Screens



Note: Use Up and Down button to move between measurement pages.



Note: Use Up and Down button to move between measurement pages.

Note: Only for SPtM application

	Generator				
L1N	230V	L1L2	400 V		
L2N	230V	L2L3	400 V		
L3N	230V	L3L1	400 V		
Generator Freq 50.0Hz					



Note: Use Up and Down button to move between measurement pages.







	lien-e	et Power	: 1.110
	κw	FF	KVH
L1	0	0.00C	0
L2	0	0.00C	0
L3	0	0.000	0
Σ	0	0.000	0



Note: Use Up and Down button to move between measurement pages.





Pou	Jer Mana	sement
Engine	Priori	ty 00
ActGr	Pwr	500000kW
HCTRES	SPWrkel	100%
CAN16	0000000	0000000000
CAN32	0000000	00000000000



Note: Use Up and Down button to move between measurement pages.

Note: Only for MINT application



Power Ma	anagement
Engine Pric	ority 00
ActGrpPwr	500000kW
ActResPwr	500000kW
CAN16 0000	3000000000000
CHN32 0000	000000000000000000000000000000000000000



	Ana	los I	neuts	1/2
Oil	Pres	sure	######	Bar
Cool	ant	Temp	######	: °C
		l	:	Acres 4
Fuel	Les	/el	######	2



Note: Use Up and Down button to move between measurement pages.

lot Us	ed			
Batter	yVol [.]	tage	23.	8V
	:			

Note: Use Up and Down button to move between measurement pages.

	Bina	ar y	Ineut	s 172
	0	000	000	
1	Inpuț			Q
Ę	Input			0
4	Input			0 0
5	Input			ŏ



Note: Use Up and Down button to move between measurement pages.



	Binary 0009	Inputs 0000	272
670	Input Input Input		0
	THEAT		

JIL

T I

Note: Use Up and Down button to move between measurement pages.

Binary Outputs	172
0000000	
1 Output	0
2 Qutput	0
3 Qutput	Ø
4 Output	9
ο Ουτρυτ	0



Note: Use Up and Down button to move between measurement pages.

Binary	Outputs	272
0000 6 Output 7 Output 8 Output	30000	0 0 0



Note: Use Up and Down button to move between measurement pages.

	EM-BIO8- 001010	EFCP 1/2 10
Eart	h Fault	0.00A
IN:	Input Not Used	: 1
OUT:	Output	1



Note: Use Up and Down button to move between measurement pages.

Note: Available only with plug-in module



	EM-BIO8-EFCP	272
IN: OUT: OUT: OUT: OUT: OUT:	00101010 Input Output Output Output Output	0 1 0 1 0

Note: Available only with plug-in module

ECU Val	ECU Values		
Fuel Rate	#####1/h		
CoolantTemp	##### °C		
IntakeTemp	##### °C		
Oil Press	#####bar		
Boost Press	#####bar		
Load	#####%		



Note: Use Up and Down button to move between measurement pages.

Statistics	-1/3
Genset kWh	0
Genset kVarh	0
Mains kWh	0
Mains kVarh	0
Run Hours	0
Num Starts	0



Note: Use Up and Down button to move between measurement pages.

Statistics	- 273
Num E-Stops	0
Shutdowns	0
Maintenance 1	0
Maintenance 2	0
Maintenance 3	0
Rental Timer 1	0



Note: Use Up and Down button to move between measurement pages.



Rent Ex. Ex.	Statis tal Timer Timer 1 Timer 2	tics 2 00:0 00:0	000 0:00 0:00 0:00



i-GPS	1/2
Lev	93%
ate	12%
	2
ode	12
Т-Моьіle	CZ
Туре	4G
	Lev ate ode T-Mobile Type



Note: Use Up and Down button to move between measurement pages.

Note: Available only with plug-in module

CM-4G-GPS	2/2
Latitude	0.1234
Longitude	0.1234
Altitude	123m
HomePosDist	123km
Satelites	1



Note: Use Up and Down button to move between measurement pages.

Note: Available only with plug-in module





Note: Available only with plug-in module



Note: Use Up and Down button to move between measurement pages.

Note: Available only with plug-in module





Note: Use Up and Down button to move between measurement pages.

Note: Available only with plug-in module





Note: Available only with ECU supported by TIER4F

P	'lus−in Modu	ales
Slot	A:Disabled	
Modu	le	
Slot	B:Disabled	
Modu	le	



Note: Use Up and Down button to move between measurement pages.



Note: Use Up and Down button to move between measurement pages.

Note: From all of these pages it is possible to switch seamlessly to the setpoint group page by pressing Page button.

Note: There can be some additional screens and also some screens can be hidden. Screen's visibility depends on actual configuration (usage of extension or communication modules, ECU, etc.).



2.3 Setpoint Screens



Note: From all measurement pages we can fluently go to the setpoint group page by pressing Page button.



Note: Use Up and Down button to select required setpoint group.



Nominal	Power ⁸
Default value 200	Current ' value 120
Range 1÷500	0 kW



Note: Use Left and Right button to select required setpoint.



Note: Use Enter button to enter selected setpoint.





Note: Use Enter button to confirm adjusted value of setpoint.



Note: Use Page button to discard changes, to set setpoint to previous value and to return to the list of setpoints of selected group.

IMPORTANT: Cannot change setpoint? Setpoints marked with an padlock are password protected. Enter password as described in the chapter Password (page 22).



2.4 History Log



Note: From all measurement pages we can fluently go to the setpoint group page by pressing Page button.





Note: From setpoint group page we can fluently go to the history log pages by pressing Page button.



Note: Use Up and Down button to select required alarm reason.





Note: Use Up and Down button to select required alarm reason.



Note: Use Enter button to move to the next page of history log.

RPM	Pwn	Q	\square
1500	15.0	15.0 🔒	
0	0.0	0.0	
0	0.0	0.0	
1500	15.0	15.0	\square
1500	15.0	15.0 🗟	
-002 MCB	Opened		
			•

Note: Use Up and Down button to select required alarm reason.



Note: Use Enter button to move to the next page of history log.

PF LC	hn	GFra	
0.75	С	50.0	
0.00	С	0.0	
0.00	С	0.0	
0.73	С	50.0	
0.74	C	50.0	
-002 MCB	0P6	ened	

Note: Use Up and Down button to select required alarm reason.



Note: Use Enter button to move to the next page of history log.

Vg1	Vg2	Vg3	
230	230	230	
0	0	0	
0	0	0	
230	230	230	
230	230	230	U U U
-002 MC	B Oper	hed	

Note: Use Up and Down button to select required alarm reason.





VG12	Vg23	Vg31	
230	230	230	
0	0	0	
0	0	0	
230	230	230	
230	230	230	
-002 M	CB Ope	ned	

Note: Use Up and Down button to select required alarm reason.



Note: Use Enter button to move to the next page of history log.

	IL2	IL3	
30	30	30	Note: Use Up and
8	ğ	ğ	Down button to
70	70	70	select required
30 70	্র বর	৩ ২০	alarm reason
-002 MC	B Oper	ied	



Note: Use Enter button to move to the next page of history log.

Um1	Um2	Um3	
230	230	230	
0	0	Ø	
0	0	0	
230	230	230	
230	230	230	U U U U U U U U U U U U U U U U U U U
-002 MC	B Oper	hed	

Note: Use Up and Down button to select required alarm reason.



Note: Use Enter button to move to the next page of history log.

Um12	Um23	Um31		
230	230	230		
0	0	0		
0	0	0		
230	230	230		\square
230	230	230	Ä	
-002 M	CB Ope	ned		

Note: Use Up and Down button to select required alarm reason.





	FC FI	1I	
	0	0	
	0	0	
	0	0	
	0	0	
	0	0	
-002 MCB	Opened		

Note: Use Up and Down button to select required alarm reason.



Note: Use Enter button to move to the next page of history log.

MFra	VBat	OilP	ſ	
50.0	23.2	3.2	4	
0.0	0.0	0.0		
0.0	23.2	0.0		
50.0	23.3	3.2	ſ	
50.0	23.3	3.2	넣	
-002 M	CB Ope	ned		

Note: Use Up and Down button to select required alarm reason.



Note: Use Enter button to move to the next page of history log.

EngT F	FLvl	Ain4	
30.0	50	00.0	
22.0	20	00.0	
23.0	- 30	00.0	
23.0	- 30	00.0	
23.0	50	00.0	
-002 MCB	3 Ope	ned	

Note: Use Up and Down button to select required alarm reason.



Note: Use Enter button to move to the next page of history log.

BIN	BOUT	
01101000) 11000011	
11001001	01001010	
01010100	01010100	
11010000	01101000	
11000011	. 01010100	
-002 MCB	Opened	

Note: Use Up and Down button to select required alarm reason.





Mode	
Man Man Man Man Man	Note: Use Up and Down button to select required alarm reason.
-002 MCB Opened	

Note: Use Enter button to move to the first page of history log.

IMPORTANT: The records are numbered in reverse order, i.e. the latest (newest) record is "0" and older records have "-1", "-2" etc.

Note: This is only basic history record. There can be some additional screens in case that in controller is extension module or ECU is configured. Also it depends on connection type.



3 Browsing alarms



Note: Use Up button to move to alarmlist from main measurement screen.



- Active alarms are displayed as white text on black background. It means the alarm is still active, i.e. the appropriate alarm conditions are still present.
- Inactive alarms are displayed as black text on white background. It means the alarm is no more active, i.e. the appropriate alarm conditions are gone.
- Not confirmed alarms are displayed with an asterisk. It means the alarm is still not acknowledged (confirmed).
- ECU alarms: SPN/FMI/OC/SC
 - SPN Suspect parameter number
 - FMI type of protection
 - OC number of errors
 - SC source of error





4 Password

4.1 Enter password



Note: From all measurement pages we can fluently go to the setpoint group page by pressing Page button.



Note: Use Up and Down button to select setpoint group Password.



Note: Use Enter button to enter setpoint group Password.



Note: Use Enter button to enter selected setpoint.





Note: Use Left and Right button to move between digits.



Note: Use Enter button to confirm the password or Page button to cancel entering the password.





Note: In case that invalid password is entered, the controller shows Invalid password screen. Use Page button to go back to menu.



4.2 Change password



Note: From all measurement pages we can fluently go to the setpoint group page by pressing Page button.



Note: Use Up and Down button to select setpoint group Password.

Note: Use Enter button to enter setpoint group Password.



Note: Use Enter button to enter selected setpoint.



Note: Use Up and Down button to select required level of password.







Note: Use Left and Right button to move between digits.



Note: After setting new password again use Enter button to confirm adjusted password or Page button to discard changes and to cancel changing password.



Note: Before changing the password controller has to be unlocked. In case that controller is locked, the controller shows Password required screen. In that case the password has to be entered before changing the password.

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4.3 Log out from controller



Note: From all measurement pages we can fluently go to the setpoint group page by pressing Page button.



Note: Use Up and Down button to select setpoint group Password.

Note: Use Enter button to enter setpoint group Password.



Note: Use Enter button to enter selected setpoint.





Note: Use Up and Down button to set required value of selected setpoint.



Note: Use Left and Right button to move between digits.

Note: Enter invalid password to log out from controller.



Note: In case that invalid password is entered, the controller shows Invalid password screen. Use Page button to go back to menu.

4.4 Lost Password

IMPORTANT: Display the information screen containing the serial number and password decode number as described in the chapter Information screen (page 28) and send them to your local distributor.

4.5 Password break protection

The controller password is protected against breaking by brute force. The protection works at every controller interface separately.

- 1. When an invalid password is entered 5 times after each other, independently on the time period elapsed between the attempts, the controller will be blocked after the 5th unsuccessful attempt for 1 minute at the particular interface.
- 2. While the controller is blocked it refuses any further attempts to enter password.
- 3. When unblocked again the controller accepts one attempt to enter password. If the password is incorrect again the controller will be blocked for 2 minutes.
- 4. Each further attempt to enter invalid password will double the blocking time, but maximum blocking time is 20 minutes.
- 5. When incorrect password is entered 100-times after each other the controller is blocked forever and the password reset procedure is required to unblock it.



5 Information screen



Note: On Main measurement screen press Enter and Page button together. Enter button has to be pressed first.

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Note: Use Page button to move to the next page.

About Contr	oller 1/2
InteliG	en 200
ComAp 2	018
Controller	' Name
Opplication!	OME25
Branch:	Standard

Note: Use Page button to move to the next page.



About Con	troller 2/2
SW Version:	1.0.0.00
HW Version:	1.0
Serial:	12345678
Pwd.Dec.:	1212345678



Note: Use Up button to move back to main measurement screen.



6 Language selection



Note: On Main measurement screen press Enter and Page button together. Enter button has to be pressed first.

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Note: Use Page button to move to the next page.



Note: Use Page button to move to the next page.



About Con	troller 2/2
SW Version:	1.0.0.00
HW Version:	1.0
Serial:	12345678
Pwd.Dec.:	1212345678



Note: Use Page button to move to the next page.



Note: Use Enter button to confirm selected language.



7 Configuration level



Note: On Main measurement screen press Enter and Page button together. Enter button has to be pressed first.



Note: Use Page button to move to the next page.



Note: Use Page button to move to the next page.



About Con	troller 2/2
SW Version:	1.0.0.00
HW Version:	1.0
Serial:	12345678
Pwd.Dec.:	1212345678



Note: Use Page button to move to the next page.

Language3		
Language3	Language?	
Languages	Languagez	
	Lariauadeo	

Note: Use Page button to move to the next page.



Note: Use Up and down button to select required level of configuration.



Note: Use Enter button to confirm selected level of configuration.



8 Display contrast adjustment



Note: On any measurement screen press Enter and Down button together for lower contrast.

Note: On any measurement screen press Enter and Up button together for higher contrast.



Note: After setting a contrast, no another action is needed.