

# InteliMains 210

## Mains supervision controller

### SW version 2.2.2

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# 1 General information

## 1.1 Version information

Minor version with VSO limit bugfix.

## 1.2 Clarification of Notation

**Note:** *This type of paragraph calls the reader's attention to a notice or related theme.*

**IMPORTANT:** This type of paragraph highlights a procedure, adjustment etc., which can cause a damage or improper function of the equipment if not performed correctly and may not be clear at first sight.

**WARNING:** This type of paragraph highlights a procedure, adjustment etc., which can cause a damage or improper function of the equipment if not performed correctly and may not be clear at first sight.

**Example:** This type of paragraph contains information that is used to illustrate how a specific function works.

## 2 Changes in the version 2.2.2

### 2.1 Repairs

- > Lower limit of VarSharing Output was changed
  - » Lower limit of VSO is -150%

# 3 Changes in the version 2.2.1

## 3.1 Updates

- > Modbus communication registers number increased.

# 4 Changes in the version 2.2.0

## 4.1 New Features

- > Change range of setpoint Mains Import CT Ratio
  - » Range is 1 .. 10 000 A/5A
- > Load kW value added to history record
- > Change of abbreviations of columns in history record

# 5 Changes in the version 2.1.0

## 5.1 New Features

- › New setpoint Bus VT Ratio for the setting voltage potential transformers ratio on a bus side (previously, Mains VT Ratio was used for both mains and bus sides).

### Bus VT Ratio

<b>Setpoint group</b>	Basic settings	<b>Related FW</b>	2.1.0
<b>Range [units]</b>	0.1 .. 500.0 [V/V]		
<b>Default value</b>	1.0 V/V	<b>Alternative config</b>	NO
<b>Step</b>	0.1 V/V		
<b>Config level</b>	9580	<b>Related applications</b>	MCB, MGCB, BTB
<b>Description</b>			
Bus voltage potential transformers ratio. If no PTs are used, adjust the setpoint to 1.			

- › New range for the setpoints #Starting Load Reserve 1 and #Starting Load Reserve 2
  - ›› The range was changed to -1 .. #Stopping Load Reserve 1 and -1 .. #Stopping Load Reserve 2

## 5.2 Repairs

- › Fixed notification via SMSs and emails with translations causing a controller instability
- › Improved vector shift measurement
- › Improved Modbus / TCP communication
- › Setpoints visibility
  - ›› In case any LBI/LBO is configured in the PLC editor, the corresponding setpoints now visible
- › Improved communication over CAN
- › Setpoint change over Modbus
  - ›› It is now possible to change the setpoint Web Interface over Modbus
- › Fixed reading of unread history records
- › General bug fixes

# 6 Changes in the version 2.0.2

## 6.1 New Features

- > Support of Japanese
- > Modbus table for setpoints
  - » Table is filled up with all setpoints
- > New option for setpoint *MCB Opens On*

### MCB Opens On

<b>Setpoint group</b>	Mains Settings	<b>Range [units]</b>	Mains Fail/Gen Run/BUS Voltage [-]
<b>Default value</b>	Gen Run	<b>Step</b>	-
<b>Config level</b>	Standard	<b>Related applications</b>	MCB, MGCB
<b>Description</b>			
Setpoint adjust the behavior of opening MCB in AUTO mode when there is mains fail.			
Mains Fail	The command to open the MCB is given immediately after mains fail condition is evaluated. If the mains will return into parameters after MCB was opened and before GCB is closed, timer MCB Close Delay is applied before MCB closing.		
Gen Run	The command to open the MCB is not given till the Gen-set starts (with respecting the setpoint Emergency Start Delay, reaches Running state, reaches proper voltage and frequency. After that, the MCB is opened, Transfer Delay timer is started and the GCB is closed after the timer elapses. If the mains will return into parameters after MCB was opened and before GCB was closed, timer Transfer Delay is applied before is MCB reclosed.		
BUS Voltage	Controller opens the MCB only after there is voltage present on the bus to open the MCB (230 VAC controlled breaker expected). In OFF mode, this means MCB stays closed all the time, regardless of the mains condition.		

## 6.2 Repairs

- > CAN communication improvement

# 7 Changes in the version 2.0.1

## 7.1 Repairs

- > RTC initialization improvement
- > Improvement of CAN1 and CAN2 communication

# 8 Related information

## 8.1 Available files

<b>Firmware (*.exe)</b>
<b>For IntelliMains 210</b>
InteliMains210-MC-2.2.2.exe

Table 8.1 Available firmware

<b>Archives (*.aig3)</b>
<b>For IntelliMains 210</b>
InteliMains210-MC-2.2.2

Table 8.2 Available archives

## 8.2 Available HW

	<b>InteliMains 210</b>
<b>Binary Inputs</b>	8
<b>Binary Outputs</b>	6
<b>Analog Inputs</b>	0
<b>Analog Outputs</b>	0
<b>Communications</b>	USB, RS232-485, 4G, GPRS, Ethernet

Table 8.3 Available hardware

## 8.3 Available related documentation

<b>Documents</b>	<b>Description</b>
InteliMains 210 Global Guide	Global Guide of the controller <a href="#">InteliMains 210 Global Guide</a>
InteliMains 210 Datasheet	Basic information about the controller <a href="#">InteliMains 210 Datasheet</a>

# 9 Notes

## 9.1 Document history

Revision number	Related sw. version	Date	Author
6	2.2.2	19.4.2023	Michal Slavata
5	2.2.1	2.8.2022	Cenek Pec
4	2.2.0	9.11.2021	Michal Slavata
3	2.1.0	16.4.2021	Petr Chvojka
2	2.0.2	11.9.2019	Michal Slavata
1	2.0.1	1.4.2019	Michal Slavata