

MINT PCU V3 Changenotes

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Table 1: Revision History

Date	Version	Description of Changes	Revised by
2024-08-30	1.0.0	Initial release V3.0.0	Anthony Nicasens
2024-09-03	1.0.1	Version Changes V3.0.1	Anthony Nicasens
2024-09-18	1.0.2	Version Changes V3.0.2	Anthony Nicasens
2024-11-19	1.0.3	Version Changes V3.1.0	Anthony Nicasens

1 PCU PLC Library

1.1 V3.0.0

- Initial release version

1.2 V3.0.1

PCU_FB_RTU_ORES_RS485

- Changes to the control logic (inversion of values)

PCU_FB_SmartControl_ORES_RS485

- Changes to the control logic (inversion of values)

MQTT_MINT

- Changed certificate for the MQTT connection (future compatibility)
- Added DNS IP in datastructure

PCU_FB_SmartControl_Master_Controller

- Added DNS ip to the datahub config method

PCU_FB_SmartControl_Slave_Controller

- Added DNS ip to the datahub config method

1.3 V3.0.2

PCU_FB_Smartcontrol_Solar_DataInterface

- Changes in switches logic
- Added configurable time in the switches method

PCU_FC_MasterInputs

- Name change of function from RTUInputs

PCU_FC_MasterOutputs

- Name change of function from RTUOutputs

PCU_FC_SlaveInputs

- Name change of function from NobInputs

PCU_FC_SlaveOutputs

- Name change of function from NobOutputs
- Changed mapping Out1 = Disconnect close, Out2 = Refuse pulse

PCU_FB_SmartControl_Master_Controller

- Changed internal logic for switch commands
- Changed behavior of setpoint based on the feedback of the switches

1.4 V3.1.0

New

- Added PCU_FB_RTU_ORES_RS485_Multi, legacy communication with up to 4 RTU's combined in 1
- Added PCU_FB_SmartControl_ORES_RS485_Multi, for integration in the controller with up to 4 control loops
- PCU_FB_SmartControl_Interface_Wind, for the control of wind assets
- PCU_FB_SmartControl_Interface_CHP, for the control of CHP assets

PCU_FB_SmartControl_Master_Control

- Added Wind and CHP interfaces
- Added Wind and CHP in the control loop.
- Added Wind and CHP configuration methods
- Added Wind and CHP data for the datahub
- Changed the datahub methods to in-/output parameters
- Improved disconnect CMD reaction time to < 150ms (@25ms cycletime) to all slaves
- Changed license model
- Changed eHMI functionality (added default dynamic eHMI page)
- Changed communication structure to slaves

PCU_FB_SmartControl_Slave_Control

- Added Wind and CHP interfaces
- Added Wind and CHP data for the datahub
- Changed the datahub methods to in-/output parameters
- Changed license model
- Changed communication structure to master

PCU_FB_RTU_ORES_RS485

- Changed name to PCU_FB_RTU_ORES_RS485_Single
- Changed xConnected parameter to include checking for receiving of new data
- Changed in-/output parameters to methods
- Changed configuration input parameters to methods

PCU_FB_RTU_Fluvius_IEC104

- Added license check in diagnose
- Changed in-/output parameters to methods
- Changed configuration input parameters to methods

PCU_FB_SmartControl_RTU_ORES_RS485

- Added method Output_DisconnectOpen
- Added method Output_RefuseOpen
- Changed name to PCU_FB_SmartControl_ORES_RS485_Single
- Changed xConnected parameter to include checking for receiving of new data
- Added compatibility for positive and negative ORES setpoints/feedback

PCU_FB_SmartControl_RTU_Fluvius_IEC104

- Added method Output_DisconnectOpen
- Added method Output_RefuseOpen
- Added license check in diagnose

PCU_FB_SmartControl_Solar

- Added xDisconnectOpen and xRefuseOpen to method Input_StatusSwitches