

MINI-RS

RS485 Multiprotocol I/O Modules

MINI-RS Software Bundle 7.1

2025

The list below contains modifications and new features since the release of software bundle version 6.5.

NAME	DESCRIPTION
MINI-RS Ver. 7.1 Release date 18 Jun 2025	New functionalities: <ul style="list-style-type: none">BACnet Protocol Revision 22 UpdateNew B-SS (BTL-31278) and B-SA (BTL-31262) BACnet Conformance CertificateNew services and objects added according to BACnet 1.22 standard<ul style="list-style-type: none">added ReinitializeDevice serviceadded ReadRange serviceadded Network Port objectAdded support for custom Modbus intermessage delay for RS485 Gateway function Improvements: <ul style="list-style-type: none">ASV (Application software version) value changed to 1.0Send Modbus Error Codes supported and can be enabled/disabled in both IP and RS485 I/O Modules Fixed bugs: <ul style="list-style-type: none">New BACnet ID not accepted after reload settings

iSMA-B-MINI-RS Software Bundle 6.5

13 Oct 2020

The list below contains modifications and new features since the release of software bundle version 6.4.

NAME	DESCRIPTION
iSMA-B-MINI-RS Ver. 6.5 Release date 13 Oct 2020	Improvements: <ul style="list-style-type: none">the default BBMD IP address set to 0.0.0.0;registering to the BBMD server is disabled if the BBMD IP address is left default;added option to disable the web server access by setting the HTTP port to 0;4U40: if the default temperature sensor is set to Fahrenheits, the default setpoint temperature is 70°F;BACnet stability improvement. Fixed bugs: <ul style="list-style-type: none">fixed Modbus statistics on www: Modbus Received / Error / Transmitted Frames;fixed BACnet ID changes to reload settings;fixed loss of frames over the BACnet IP;fixed UI filter reset in case of short disconnection of the sensor;PT1000 temperature sensor fix for readings over 350°C;in case the temperature sensor on the UI gets disconnected, the temperature value is restored to its min/max INT value.

iSMA-B-MINI-RS Software Bundle 6.3

3 Mar 2020

The list below contains modifications and new features since the release of software bundle version 6.2.

NAME	DESCRIPTION																
iSMA-B-MINI-RS Ver. 6.3 Release date 3 Mar 2020	<p>New functionalities:</p> <ul style="list-style-type: none"> new temperature sensors implemented in Celsius and Fahrenheit degrees: <table border="1"> <thead> <tr> <th>Celsius</th><th>Fahrenheit</th></tr> </thead> <tbody> <tr> <td>NI1000 21C</td><td>10K Type2 NTC B=3975K</td></tr> <tr> <td>NI1000 LG</td><td>10K Type3 NTC B=3695K</td></tr> <tr> <td></td><td>20K NTC B=4262K</td></tr> <tr> <td></td><td>3K NTC B=3975K</td></tr> <tr> <td></td><td>PT1000</td></tr> <tr> <td></td><td>NI1000 32F</td></tr> <tr> <td></td><td>NI1000 70F</td></tr> </tbody> </table> new Modbus function 0x17 Read/Write Multiple registers new Modbus function 0x2B to read the VENDOR_NAME,MODEL_NAME, FW_VERSION, HOMEPAGE. <p>Improvements:</p> <ul style="list-style-type: none"> improved filtering on UI; Device Name (Object Name) in BACnet is saved in EEPROM memory. <p>Fixed bugs:</p> <ul style="list-style-type: none"> fixed one record in sensor 30k6A1 table –resistance 60713 to 80713 (5°C). 	Celsius	Fahrenheit	NI1000 21C	10K Type2 NTC B=3975K	NI1000 LG	10K Type3 NTC B=3695K		20K NTC B=4262K		3K NTC B=3975K		PT1000		NI1000 32F		NI1000 70F
Celsius	Fahrenheit																
NI1000 21C	10K Type2 NTC B=3975K																
NI1000 LG	10K Type3 NTC B=3695K																
	20K NTC B=4262K																
	3K NTC B=3975K																
	PT1000																
	NI1000 32F																
	NI1000 70F																

iSMA-B-MINI-RS Software Bundle 6.0

7 Dec 2017

The list below contains modifications and new features since the release of software bundle version 5.5.

NAME	DESCRIPTION
iSMA-B-MINI-RS Ver. 6.0 Release date 7 Dec 2017	<p>New functionalities:</p> <ul style="list-style-type: none"> firmware Version 6.0 released with BACnet certification; added possibility to upgrade devices firmware via BACnet. <p>Fixed bugs:</p> <ul style="list-style-type: none"> fixed out of service flags in AO, BO and TO in BACnet; fixed overridden flags in AO, BO and TO in BACnet; fixed bug with number of counters for Binary Input object (now variable is 32-bit); changed AO-1, BO-1, TO-1 HAND_STATUS Access to read only in BACnet.

iSMA-B-MINI-RS Software Bundle 5.2

17 Jan 2017

The list below contains modifications and new features since the release of software bundle version 5.1.

NAME	DESCRIPTION
iSMA-B-MINI-RS Ver. 5.2 Release date 17 Jan 2017	<p>Fixed bugs:</p> <ul style="list-style-type: none"> fixed bug with RS485 communication problem after device update (in FW version 5.0 and 5.1 power-up cycle was needed to work properly).

The list below contains modifications and new features since the release of software bundle version 5.0.

NAME	DESCRIPTION
iSMA-B-MINI-RS Ver. 5.1 Release date 13 Jan 2017	Fixed bugs: <ul style="list-style-type: none">fixed bug with saving configuration to EEPROM memory (in FW version 5.0 once for dozens of records to the EEPROM memory can fail).

The list below contains modifications and new features since the release of software bundle version 4.3.

NAME	DESCRIPTION
iSMA-B-MINI-RS Ver. 5.0 Release date 4 Jan 2017	<p>New functionalities:</p> <ul style="list-style-type: none"> new HVAC functions Heating and Cooling in 4U4O based on output thermostatic control with a setpoint and differential value setting; added new input mode for 4I4O: Time Relay NC [ms], Time Relay NO and NC in seconds, Input Forwarding; added new input mode for 4U4O: Ordinary IO, Monostable Relay, Bistable Relay, Time Relay NO and NC [ms], Time Relay NO and NC in seconds, Input Forwarding, Heating, Cooling with corresponding BACnet objects and Modbus registers; added reset output to default after input mode change in 4U4O and 4I4O. <p>Improvements:</p> <ul style="list-style-type: none"> improved BACnet COV Increment can now have values with resolution 0.1; added BACnet COV Increment access (read/write) through USB; added power Led flashing after IO watchdog triggered; changed IO watchdog reset after read/write registers through USB; added immediately detecting sensors short circuit and disconnection regardless of filter settings on universal inputs. <p>Fixed bugs:</p> <ul style="list-style-type: none"> fixed bug with Stop bits, was always 1.

The list below contains modifications and new features since the release of software bundle version 4.2.

NAME	DESCRIPTION
iSMA-B-MINI-RS Ver. 4.3 Release date 28 Sep 2016	<p>Improvements:</p> <ul style="list-style-type: none"> UI filter improved (better signal stability at a lower filter time constant). <p>Fixed bugs:</p> <ul style="list-style-type: none"> fixed a physical output state when priority table is null in BACnet Binary/Analog/Triac Output object (when priority table is null physical output is set to relinquish default value).

The list below contains modifications and new features since the release of software bundle version 4.0.

NAME	DESCRIPTION
iSMA-B-MINI-RS Ver. 4.2 Release date 22 Apr 2016	<p>Improvements:</p> <ul style="list-style-type: none"> added new module 4TO-H added possibility set COV Increment via USB by iSMA-Configurator. <p>Fixed bugs:</p> <ul style="list-style-type: none"> fixed LED flashing in module 4U4A when AO_VALUE > 0 in 0-10V mode.

The list below contains modifications and new features since the release of software bundle version 1.0.

NAME	DESCRIPTION
iSMA-B-MINI-RS Ver. 4.0 Release date 18 Jan 2016	New functionalities: <ul style="list-style-type: none">• new BACnet objects for configuration, detail in manual• added BACnet device property (Active COV Subscriptions);• added BACnet objects for additional modes in 4I4O. Improvements: <ul style="list-style-type: none">• improved configuration of flag Out Of Service and Override in digital outputs and analog outputs;• added COV Increment for universal inputs and analog outputs• BACnet Out Of Service for UI and BI with the possibility of overwriting present value;• BACnet Analog Output and Binary Output priority table reset after watchdog was triggered;• improved Resistance measurement on universal input for increased accuracy of PT1000 and NI1000;• improved counter of TX and RX frames in MS/TP BACnet;• improved additional modes in 4I4O. Fixed bugs: <ul style="list-style-type: none">• fixed LED flashing in module 4U4A when AO_VALUE > 0 in 0-10V mode.

NAME	DESCRIPTION
iSMA-B-MINI-RS Ver. 1.0 Release date 13 Jul 2015	Improvements: <ul style="list-style-type: none">• improved stability and speed in BACnet MS/TP;• default settings after reset for Analog Outputs;• changed Firmware Version and Application Software Version in BACnet;• changed saving counters via USB and Modbus (regular verification of changing settings);• improved reading structure of bits in Modbus (reset irrelevant bits).

NAME	DESCRIPTION
iSMA-B-MINI-RS Ver. 0.8 Release date 12 Jun 2015	First release.