

MINI IP SERIES FIRMWARE VERSIONS

The list below contains modifications and new features:

Name	Description																
<p>Firmware version 6.4</p> <p>Release date</p> <p>03.06.2020</p>	<p>Fixed bugs:</p> <ul style="list-style-type: none"> Fixed TCP/UDP/IP stack issue, caused by 6.3 firmware that may have frozen BACnet IP communication Temperature value of disconnected sensor on UI restored to min/max INT value, issue caused by 6.3 firmware 																
<p>Firmware version 6.3</p> <p>Release date</p> <p>03.03.2020</p>	<p>New functions:</p> <ul style="list-style-type: none"> New temperature sensors implemented in Celsius and Fahrenheit degrees <table border="1" data-bbox="587 884 1390 1339"> <thead> <tr> <th data-bbox="587 884 986 969">Temp. sensors in Celsius degrees</th> <th data-bbox="986 884 1390 969">Temp. sensors in Fahrenheit degrees</th> </tr> </thead> <tbody> <tr> <td data-bbox="587 969 986 1021">NI1000 21C</td> <td data-bbox="986 969 1390 1021">10K Type2 NTC B=3975K</td> </tr> <tr> <td data-bbox="587 1021 986 1075">NI1000 LG</td> <td data-bbox="986 1021 1390 1075">10K Type3 NTC B=3695K</td> </tr> <tr> <td data-bbox="587 1075 986 1128"></td> <td data-bbox="986 1075 1390 1128">20K NTC B=4262K</td> </tr> <tr> <td data-bbox="587 1128 986 1182"></td> <td data-bbox="986 1128 1390 1182">3K NTC B=3975K</td> </tr> <tr> <td data-bbox="587 1182 986 1236"></td> <td data-bbox="986 1182 1390 1236">PT1000</td> </tr> <tr> <td data-bbox="587 1236 986 1290"></td> <td data-bbox="986 1236 1390 1290">NI1000 32F</td> </tr> <tr> <td data-bbox="587 1290 986 1344"></td> <td data-bbox="986 1290 1390 1344">NI1000 70F</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Upgraded built-in Web page with all new temperature sensors New Modbus function 0x17 Read/Write Multiple registers New Modbus function 0x2B to read the VENDOR_NAME,MODEL_NAME, FW_VERSION, HOMEPAGE Supporting Modbus address 0xFF for communication with gateway (IP module) <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) 	Temp. sensors in Celsius degrees	Temp. sensors in Fahrenheit degrees	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
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	<ul style="list-style-type: none"> • “Send I Am” message is not sent if BACnet is turned off
Firmware version 6.2 Release date 30.07.2018	New functions: <ul style="list-style-type: none"> • Support new HW V3.2 with UL certification by iSMA Configurator Fixed bugs: <ul style="list-style-type: none"> • Fixed Modbus TCP/IP socket timeout issue
Firmware version 6.1 Release date 12.04.2018	Fixed bugs: <ul style="list-style-type: none"> • Fixed reset of live time value • Fixed Inputs/Outputs watchdog issue related to live time value
Firmware version 6.0 Release date 07.12.2017	New functions: <ul style="list-style-type: none"> • Firmware Version 6.0 released with BACnet certification • Added possibility to upgrade devices firmware via BACnet Fixed bugs: <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
Firmware version 5.5 Release date 01.06.2017	New functions: <ul style="list-style-type: none"> • Added new proprietary properties in BACnet Device object: HW version, Modbus Register 0 reference, RS485 biasing, RS485 actual baud rate, RS485 user baud rate, IP address, subnet, gateway, HTTP port, UDP port; • Added new Modbus registers: HW version, MAC address; • Added new elements on built-in web page: HW version, RS485 biasing; Improvements: <ul style="list-style-type: none"> • Improved Ethernet communication in Modbus Gateway mode; Fixed bugs: <ul style="list-style-type: none"> • Fixed built-in web page (now BACnet COV Increment always in format with one decimal place);

<p>Firmware version 5.0</p> <p>Release date 04.01.2017</p>	<p>New functions:</p> <ul style="list-style-type: none"> • New HVAC functions Heating and Cooling in 4U40 based on output thermostatic control with a setpoint and differential value setting; • Added new input mode for 4I40: Time Relay NC [ms], Time Relay NO and NC in seconds, Input Forwarding; • Added new input mode for 4U40: 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 4U40 and 4I40; <p>Improvements:</p> <ul style="list-style-type: none"> • Improved BACnet COV Increment can now have values with resolution 0.1; • Added power Led flashing after IO watchdog triggered; • Added immediately detecting sensors short circuit and disconnection regardless of filter settings on Universal Inputs; • Added to Built-in Web page new modes in 4U40 as an additional table in UI tab; <p>Fixed bugs:</p> <ul style="list-style-type: none"> • Fixed bug with Stop bits, was always 1;
<p>Firmware version 4.7</p> <p>Release date 28.09.2016</p>	<ul style="list-style-type: none"> • Fixed built-in web page (4I40 special modes fixed, BACnet COV Increment "0" value cannot be set, getting counter 4 fixed); • Modbus TCP exception codes improved; • UI filter improved (better signal stability at a lower filter time constant); • 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); • Improved Ethernet stability (when module receive lots of errors on MAC layer will run auto-negotiation mode one more time);
<p>Firmware version 4.6</p> <p>Release date 13.05.2016</p>	<ul style="list-style-type: none"> • Fixed DI tab in the built-in web page (in FV V4.5 entering this tab refreshed whole page)
<p>Firmware version 4.5</p>	<ul style="list-style-type: none"> • Added new module 4TO-H-IP; • Improved algorithm of handling Modbus TCP connections and data (when incorrect data arrives device will close the connection);

Release date 30.03.2016	<ul style="list-style-type: none"> Improved Ethernet stability when device receive invalid Ethernet frame;
Firmware version 4.3 Release date 18.01.2016	<ul style="list-style-type: none"> Improved UI measurement for 16-bit resolution;
Firmware version 4.2 Release date 12.01.2016	<ul style="list-style-type: none"> New BACnet objects for configuration, detail in manual; 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; Added BACnet device property (Active COV Subscriptions); Added BACnet objects for additional mode in 4I40; Improved Resistance measurement on Universal Input for increased accuracy of PT1000 and NI1000; Reading new IP address after reload settings; Fixed temperature sensor configuration for Universal Input; Added flag Send Modbus Error; Improved socket service interface for Modbus protocol; Added PHY reset when error was detected (improved Ethernet stability); Protocol Type has moved to IP Configuration on built-in web page; Improved mode in 4I40; Disable BACnet protocol when Dipswitch are set to Modbus;
Firmware version 2.8 Release date 23.09.2015	<ul style="list-style-type: none"> Resolved problem with BACnet hanging after device reset;
Firmware version 2.7 Release date 28.08.2015	<ul style="list-style-type: none"> Added functionality to make edit User Baud Rate on the built-in web page; Improvement of error codes in Modbus TCP; Additional login 'platform' to the built-in web page;
Firmware version 2.2 Release date 06.08.2015	<ul style="list-style-type: none"> Improved layout on built-in web page; Improved saving to EEPROM (counters after restore default settings was not saved);

<p>Firmware version 2.0</p> <p>Release date 13.07.2015</p>	<ul style="list-style-type: none">• Added IO watchdog for AO (The built-in web page reset IO watchdog);• Resolved problem with saving counters in 4I4O;• Improved logic in 4I4O;• Watchdog default set to 0;• Improved filter for Universal Input - may accept value 0;• Corrections on the built-in web page;• added 0,1Hz and 0,01Hz PWM modes for Analog Outputs;• Improved Communication on a RS485 (fix space mark between frame);• Added hand properties in BACnet;
<p>Firmware version 1.0</p> <p>Release date 01.07.2015</p>	<ul style="list-style-type: none">• First release