

MINI IP SERIES FIRMWARE VERSIONS

The list below contains modifications and new features:

Name	Description
<p>Firmware version 6.0</p> <p>Release date 07.12.2017</p>	<p>New functions:</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
<p>Firmware version 5.5</p> <p>Release date 01.06.2017</p>	<p>New functions:</p> <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; <p>Improvements:</p> <ul style="list-style-type: none"> • Improved Ethernet communication in Modbus Gateway mode; <p>Fixed bugs:</p> <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

	<p>in seconds, Input Forwarding, Heating, Cooling with corresponding BACnet objects and Modbus registers;</p> <ul style="list-style-type: none"> 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> <p>Release date 30.03.2016</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); Improved Ethernet stability when device receive invalid Ethernet frame;
<p>Firmware version 4.3</p> <p>Release date 18.01.2016</p>	<ul style="list-style-type: none"> Improved UI measurement for 16-bit resolution;
<p>Firmware version 4.2</p>	<ul style="list-style-type: none"> New BACnet objects for configuration, detail in manual;

<p>Release date 12.01.2016</p>	<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; • 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;
<p>Firmware version 2.8</p> <p>Release date 23.09.2015</p>	<ul style="list-style-type: none"> • Resolved problem with BACnet hanging after device reset;
<p>Firmware version 2.7</p> <p>Release date 28.08.2015</p>	<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;
<p>Firmware version 2.2</p> <p>Release date 06.08.2015</p>	<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 4I40; • Improved logic in 4I40; • Watchdog default set to 0; • Improved filter for Universal Input - may accept value 0; • Corrections on the built-in web page;

	<ul style="list-style-type: none">• 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;
Firmware version 1.0 Release date 01.07.2015	<ul style="list-style-type: none">• First release