# ET-7000/PET-7000 version history

Last update: 2017-10-13

This document provides a quick historical reference to firmware version, release dates, features, and improvements. Select your module from the list below to see the release notes for it.

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ET-7017-10/PET-7017-10
ET-7018Z/PET-7018Z
ET-7019/PET-7019
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### ET-7002/PET-7002

Version	Release	MiniOS7	Function library	
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which vers	
2.0.0	2014-04-24	MiniOS7 2.2.15	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2
	New and imp	oved features:		
	<ul> <li>The Mode</li> <li>Improve t</li> <li>Verify the</li> <li>With the setting. If</li> <li>Connection</li> <li>Once a Mode</li> </ul> Update:	poort for new Flash chip ous TCP port can be specified individually for WAN a he web interface for setting up the Pair-Connection new IP address has been changed DHCP enabled, the hostname (option 12) can be sp the setting is not given, the default (icpdas_xx:xx:xx on lifetime odbus TCP connection has been established, it will firmware for both ET-7000 and PET-7000 modules	ecified with the "Moo k) will be used	

### ET-7005/PET-7005

Version	Release	MiniOS7	Function library
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which version of function library the firmware is using.
2.0.0	2014-04-24	MiniOS7 2.2.15	CPU 5.2.5 Ethernet 1.2.8 Web Server 1.2.8 Modbus 1.7.2
	New and imp	roved features:	
	The Modi	pport for new Flash chip ous TCP port can be specified individually for WAN a the web interface for setting up the Pair-Connection	
	The same	firmware for both ET-7000 and PET-7000 modules	
1.0.1	2012-02-21	MiniOS7 2.2.10	
	New and imp	roved features:	
	<ul><li>With the setting. If</li><li>Connection</li><li>Once a M</li></ul>	new IP address has been changed DHCP enabled, the hostname (option 12) can be sp the setting is not given, the default (icpdas_xx:xx:x: on lifetime odbus TCP connection has been established, it will as an ARP request on the local network at 30-second	x) will be used be closed after 90 seconds of inactivity
	Update:		
	Specify co	pefficients as a user-defined type (type 0x70)	
	Fixed:		
	Web HMI	does not work properly when using either the Moz	rilla Firefox or SeaMonkey browser

## ET-7015/PET-7015

Version	Release	MiniOS7	Function library		
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which vers		
2.0.0	2014-04-24	MiniOS7 2.2.15	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2	
	New and imp	roved features:			
	Improve t	pport for new Flash chip he web interface for setting up the Pair-Connection	1		
	Update:				
	The same	firmware for both ET-7000 and PET-7000 modules			
1.1.2	2013-10-24	MiniOS7 2.2.10			
	New and imp	roved features:			
	<ul><li>With the setting. If</li><li>Connection</li><li>Once a M</li><li>Broadcast</li></ul>	new IP address has been changed DHCP enabled, the hostname (option 12) can be sp the setting is not given, the default (icpdas_xx:xx:x: on lifetime odbus TCP connection has been established, it will as an ARP request on the local network at 30-second ous TCP port can be specified individually for WAN a	x) will be used be closed after 90 sed d intervals		
	Fixed the	issue that the offset value cannot be set up correct	ly		

## ET-7016/PET-7016

Version	Release	MiniOS7	Function library			
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which version of function library the firmware is using.			
2.0.0	2014-04-24	MiniOS7 2.2.15	CPU 5.2.5 Ethernet 1.2.8 Web Server 1.2.8 Modbus 1.7.2			
	New and imp	roved features:				
		pport for new Flash chip he web interface for setting up the Pair-Connection	ı			
	Update:					
	The same	firmware for both ET-7000 and PET-7000 modules				
1.0.2	2013-12-13	MiniOS7 2.2.10				
	New and improved features:					
	The Modbus TCP port can be specified individually for WAN and LAN					
	Update:					
	Provide contraction	ompensation for inaccuracy resulting from floating voltage	point computations when setting up the			
1.0.1	2013-10-10	MiniOS7 2.2.10				
	New and imp	roved features:				
	<ul> <li>With the setting. If</li> <li>Added op This meth browser in</li> </ul>	With the DHCP enabled, the hostname (option 12) can be specified with the "Module Information" setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used				
	Fixed:	issue that the Helf Duides Overton Duides and Sull	Duides source has set up source!!			
	• Fixed the	issue that the Half-Bridge, Quarter-Bridge and Full-	Bridge cannot be set up correctly			

### ET-7017/PET-7017

characters

Version	Release	MiniOS7	Function library	
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which versilibrary the firmware	
2.0.0	2014-04-24	MiniOS7 2.2.15	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2
	New and imp	roved features:		
	The Modl	pport for new Flash chip bus TCP port can be specified individually for WAN a the web interface for setting up the Pair-Connection		
	Update:			
	The same	e firmware for both ET-7000 and PET-7000 modules	I	
1.1.5	2012-09-04	MiniOS7 2.2.10		
	New and imp	roved features:		
		DHCP enabled, the hostname (option 12) can be sp the setting is not given, the default (icpdas_xx:xx:x		lule Information"
	Once a M • Broadcast	on lifetime Iodbus TCP connection has been established, it will ts an ARP request on the local network at 30-second		conds of inactivity
	Once a M • Broadcast  Update:	lodbus TCP connection has been established, it will ts an ARP request on the local network at 30-second		onds of inactivity
1.1.1	Once a M • Broadcast  Update:	lodbus TCP connection has been established, it will		onds of inactivity
1.1.1	Once a M • Broadcast Update: • Removed 2011-03-21	the option of setting up the "Router Public IP"		onds of inactivity
1.1.1	Once a M Broadcast Update: Removed 2011-03-21 New and imp Connection Once a control Added op This methorowser i Added op Broadcast	the option of setting up the "Router Public IP"  MiniOS7 2.2.10  wroved features: on lifetime onnection has been established, it will be closed after options to specify the IP address and TCP port nod enables the web HMI of internal ET-7000/PET-76 in the Internet option to change the Modbus TCP port test an ARP request on the local network at 3-minute	er 3 minutes of inactive to the control of the cont	rity
1.1.1	Once a M Broadcast Update: Removed 2011-03-21 New and imp Connection Once a control Added op This methorowser i Added op Broadcast	the option of setting up the "Router Public IP"  MiniOS7 2.2.10  Troved features:  On lifetime  Innection has been established, it will be closed after options to specify the IP address and TCP port and enables the web HMI of internal ET-7000/PET-76 in the Internet option to change the Modbus TCP port	er 3 minutes of inactive to the control of the cont	rity

### ET-7017-10/PET-7017-10

Version	Release	MiniOS7	Function library	
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which vers	
2.0.0	2014-04-24	MiniOS7 2.2.15	CPU 5.2.5 Web Server 1.2.8	TCP/IP 1.2.8 Modbus 1.7.2
	Added sup     The Modb	roved features:  pport for new Flash chip  pus TCP port can be specified individually for WAN a  he web interface for setting up the Pair-Connection		
	_ ·	firmware for both ET-7000 and PET-7000 modules		
1.1.1	2011-03-21	MiniOS7 2.2.10		
	Connectice Once a co Added op This meth browser in Added op Broadcast Web HMI Fixed: Web HMI An "Invali when run Failed to re character.	nnnection has been established, it will be closed after tions to specify the IP address and TCP port and enables the web HMI of internal ET-7000/PET-76 in the Internet tions to change the Modbus TCP port as an ARP request on the local network at 3-minute will automatically reconnect to ET-7000/PET-7000 and does not work properly when using either the Moz d IP Address" error message may be displayed in the ning the Mozilla Firefox and SeaMonkey browsers retrieve the account and password when the account	intervals after disconnect illa Firefox or SeaMo e "Network Settings"	by the remote web  nkey browser configuration page

## ET-7018Z/PET-7018Z

Version	Release	MiniOS7	Function library			
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which version of function library the firmware is using.			
2.0.0	2014-04-24	MiniOS7 2.2.15	CPU TCP/IP 1.2.8 Web Server 1.2.8 Modbus 1.7.2			
	New and imp	roved features:				
	Added support for new Flash chip					
		bus TCP port can be specified individually for WAN a	and LAN			
	Improve t	the web interface for setting up the Pair-Connection	1			
	Update:					
	The same	e firmware for both ET-7000 and PET-7000 modules				
	Removed	the option of setting up the "Router Public IP"				
1.1.1	2011-09-07	MiniOS7 2.2.10				
	New and imp	roved features:				
	Connection	on lifetime				
	Once a co	onnection has been established, it will be closed after	er 3 minutes of inactivity			
	Added options to change the Modbus TCP port					
	Broadcasts an ARP request on the local network at 3-minute intervals  Out to the state of t					
	Web HMI will automatically reconnect to ET-7000/PET-7000 after disconnect      The decomposition of the second secon					
	Fixed:					
	Web HMI does not work properly when using either the Mozilla Firefox or SeaMonkey browser     An "Invalid ID Address" green received and be displayed in the "Network Settings" good green and the displayed in the "Network Settings" good green and the displayed in the "Network Settings" good green and the displayed in the settings."					
	<ul> <li>An "Invalid IP Address" error message may be displayed in the "Network Settings" configuration page when running the Mozilla Firefox and SeaMonkey browsers</li> </ul>					
	<ul> <li>Failed to retrieve the account and password when the account/password length is exactly equal to 8</li> </ul>					
	characters					
	The web pages may fail to properly load all content if the LAN speed is 10Mbps					
	Fixed issues regarding the Pair-Connection					
	1. Communication may fail when receiving an illegal response from remote input device					
		t reconnect to remote input device after disconnect is address of remote input device does not accept n				
1.1.0	2010-07-01	MiniOS7 2.2.10	lore than 10255			
1.1.0						
	New and improved features:					
	Added options to specify the IP address and TCP port  This mathed analyses the week LIMI of ET 7000 (PET 7000 can be accessed by the granter with browner.)					
	This method enables the web HMI of ET-7000/PET-7000 can be accessed by the remote web browser in the Internet					
	Broadcasts an ARP request on the local network at 5-minute intervals					
	Web HMI will automatically reconnect to ET-7000/PET-7000 after disconnect					
	Update:					
	<ul> <li>Enable the alarm function to operate correctly when the input signal is configured as thermocouple input</li> </ul>					
	Fixed:					
		T does not work if the WDT timeout was set to 33 se	econds or more			
1.0.3	2009-09-16	MiniOS7 2.2.10				
- <del>-</del>	Fixed:	1	1			
		Service where where the service of t	anatura francista CIC			
	<ul> <li>Fixed the</li> </ul>	issue that the module may fail to read actual temperature	erature from the CJC sensor			

### ET-7019/PET-7019

Version	Release	MiniOS7	Function library	
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which vers	
2.0.0	2014-04-24	MiniOS7 2.2.15	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2
	Added su     The Modi	roved features:  pport for new Flash chip  pus TCP port can be specified individually for WAN a  he web interface for setting up the Pair-Connection		
	The same	firmware for both ET-7000 and PET-7000 modules		
1.0.1	2011-09-07	MiniOS7 2.2.10		
	Connectice Once a co Added op Broadcast Web HMI Fixed: Web HMI An "Invali when run Failed to a character Fixed issu 1. Commu 2. Cannot	connection has been established, it will be closed after that the change the Modbus TCP port is an ARP request on the local network at 3-minute will automatically reconnect to ET-7000/PET-7000 and does not work properly when using either the Moz d IP Address" error message may be displayed in the ning the Mozilla Firefox and SeaMonkey browsers retrieve the account and password when the account	intervals after disconnect cilla Firefox or SeaMo e "Network Settings' nt/password length is	onkey browser " configuration page s exactly equal to 8

## ET-7019Z/PET-7019Z

Version	Release	MiniOS7	Function library
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which version of function library the firmware is using.
2.0.0	2014-04-24	MiniOS7 2.2.15	CPU 5.2.5 Ethernet 1.2.8 Web Server 1.2.8 Modbus 1.7.2
	New and imp	roved features:	
	Added sup	pport for new Flash chip	
	Improve t	he web interface for setting up the Pair-Connection	1
	Update:		
	The same	firmware for both ET-7000 and PET-7000 modules	
1.1.2	2014-02-20	MiniOS7 2.2.10	
	<ul> <li>Verify the</li> <li>With the setting. If</li> <li>Connection</li> <li>Once a M</li> <li>(With the</li> <li>Broadcast</li> <li>(With the</li> <li>The Mode</li> <li>Fixed:</li> <li>Fixed the</li> </ul>	new IP address has been changed DHCP enabled, the hostname (option 12) can be sp the setting is not given, the default (icpdas_xx:xx:x: on lifetime odbus TCP connection has been established, it will version 1.0.0, the connection was closed after 180 is an ARP request to the gateway at 30-second inter version 1.0.0, the ARP requests were broadcasted a bus TCP port can be specified individually for WAN a issue that the Open Wire Detection does not correspondence web interface	x) will be used be closed after 90 seconds of inactivity seconds) vals at 180-second intervals) and LAN
1.0.0	2011-09-05	MiniOS7 2.2.10	
	First Release		

## ET-7026/PET-7026

Version	Release	MiniOS7	Function library	
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which version of function library the firmware is using.	
2.0.0	2014-04-24	MiniOS7 2.2.15	CPU 5.2.5 Ethernet 1.2.8 Web Server 1.2.8 Modbus 1.7.2	
	<ul><li>Added su</li><li>The Mod</li><li>Improve</li></ul> Update:	proved features: apport for new Flash chip bus TCP port can be specified individually for WAN a the web interface for setting up the Pair-Connection e firmware for both ET-7000 and PET-7000 modules		
1.1.4	2012-08-24	MiniOS7 2.2.10		
	New and improved features:  Improve the method for detecting the connection status between the ET-7000/PET-7000 a interactive modules in order to avoid being disconnected from the network			
1.1.3	2012-03-26	MiniOS7 2.2.10		
	<ul> <li>New and improved features:</li> <li>Verify the new IP address has been changed</li> <li>With the DHCP enabled, the hostname (option 12) can be specified with the "Module Insetting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used</li> <li>Connection lifetime Once a Modbus TCP connection has been established, it will be closed after 90 seconds of Broadcasts an ARP request on the local network at 30-second intervals</li> <li>Update: <ul> <li>Removed the option of setting up the "Router Public IP"</li> </ul> </li> <li>Fixed: <ul> <li>Web HMI does not work properly when using either the Mozilla Firefox or SeaMonkey be the counter value will stay the same upon reboot if the module is reset by either WDT or command</li> <li>When the module accepted the first Modbus query (Function code 06/16) after changing analog output channels, the analog outputs may output a different current/voltage than</li> </ul> </li> </ul>			
1.0.6	2010-02-02	MiniOS7 2.2.10		
	<ul><li>Added su</li><li>Fixed:</li><li>Fixed the</li></ul>	proved features: pport for AI-to-AO Pair-Connection sissue that the Web HMI page failed to convert AO was set to current type	value from hex to floating value when AC	
1.0.4	2009-12-14	MiniOS7 2.2.10		
	<ul><li>Added su</li><li>Added op This metl</li></ul>	proved features:  Apport for Modbus UDP protocol  Obtions to specify the IP address and TCP port  Annod enables the web HMI of internal ET-7000/PET-70  In the Internet	000 can be accessed by the remote web	
	Fixed:			
	1. Comm 2. Canno	ues regarding the Pair-Connection unication may fail when receiving an illegal respons t reconnect to remote input device after disconnect us address of remote input device does not accept n		

1.0.3	2009-10-05	MiniOS7 2.2.10	
	New and imp	proved features:	
	Added sup	ipport for 32-bit counter	
	The latch	status of specified DI channel can be cleared individually	

### ET-7042/PET-7042

Version	Release	MiniOS7	Function library			
number	date	Signifies which version of MiniOS7 the firmware	Signifies which vers	sion of function		
number	uate	is running on.	library the firmwar	e is using.		
3.0.0	2017-04-26	MiniOS7 2.02.016	CPU 5.2.5	Ethernet 1.3.0		
	2017 0 1 20	William 21021010	Web Server 2.1.1	Modbus 1.7.2		
	Update:					
		L5 features to build the web interface, which does r				
	Change th	ne unit of timeout of the Host Watchdog timer from	1	1		
2.0.0	2014-04-24	MiniOS7 2.02.015	CPU 5.2.5	Ethernet 1.2.8		
			Web Server 1.2.8	Modbus 1.7.2		
	- I	roved features:				
		pport for new Flash chip				
		ous TCP port can be specified individually for WAN				
	-	the web interface for setting up the Pair-Connection	<u>1</u>			
1.3.1	2012-07-24	MiniOS7 2.02.010				
	New and imp	roved features:				
	Improve the method for detecting the connection status between the ET-7000 and the interactive					
	modules i	n order to avoid being disconnected from the netw	ork			
1.3.0	2012-03-27	MiniOS7 2.02.010				
	New and improved features:					
	_	new IP address has been changed				
		DHCP enabled, the hostname (option 12) can be sp	ocified with the "Mo	dula Information"		
				dule illiorifiation		
	setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used.  • Connection lifetime					
	Once a Modbus TCP connection has been established, it will be closed after 90 seconds of inactivity					
1.2.1	2010-04-28	MiniOS7 2.02.010		•		
	New and imp	royed features:				
	-	New and improved features:				
	Added support for Modbus UDP protocol     Added entires to specify the IR address and TCP port					
	<ul> <li>Added options to specify the IP address and TCP port</li> <li>This method enables the web HMI of internal ET-7000 can be accessed by the remote web browser in</li> </ul>					
	the Internet					
	Added an option to change the Modbus ID					
	Broadcasts an ARP request on the local network at 5-minute intervals					
	Web HMI will automatically reconnect to ET-7000 after disconnect					
	Update:					
	Communication of Web HMI is based on Adobe Flash Player					
	This content requires the Adobe Flash Player and a browser with Javascript enabled					
	Fixed:					
	Fixed issu	es regarding the Pair-Connection				
	Communication may fail when receiving an illegal response from remote input device					
	2. Cannot	reconnect to remote input device after disconnect				
	3. Modbus address of remote input device does not accept more than 10255					
		T does not work if the WDT timeout was set to 33 set				
	"More Information URL" field does not accept more than 12 characters					

### ET-7044/PET-7044

Version	Release	MiniOS7	Function library		
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which vers		
3.0.0	2017-04-26	MiniOS7 2.02.016	CPU 5.2.5 Web Server 2.1.1	Ethernet 1.3.0 Modbus 1.7.2	
	1	roved features: coftware low-pass filter to the digital input counter.	1		
	disabled of the disabled of the disabled of the disabled of the disable of the di	or programmable.  onnection can be enabled and configured to allow ligital outputs over Ethernet	•		
		L5 features to build the web interface, which does r	-	-	
2.0.0	2014-04-24	MiniOS7 2.02.015	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2	
	<ul><li>Added su</li><li>The Modl</li><li>Improve t</li><li>Update:</li></ul>	roved features:  pport for new Flash chip  pus TCP port can be specified individually for WAN a the web interface for setting up the Pair-Connection  firmware for both ET-7000 and PET-7000 modules			
1.3.1	2012-07-24	MiniOS7 2.02.010			
	New and improved features:     Improve the method for detecting the connection status between the ET-7000/PET-7000 and the interactive modules in order to avoid being disconnected from the network				
1.3.0	2012-03-27	MiniOS7 2.02.010			
	<ul> <li>New and improved features:</li> <li>Verify the new IP address has been changed</li> <li>With the DHCP enabled, the hostname (option 12) can be specified with the "Module Information" setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used.</li> <li>Connection lifetime Once a Modbus TCP connection has been established, it will be closed after 90 seconds of inactivity</li> </ul>				
1.2.1	2010-04-28	MiniOS7 2.02.010			
	<ul> <li>New and improved features:</li> <li>Added support for Modbus UDP protocol</li> <li>Added options to specify the IP address and TCP port     This method enables the web HMI of internal ET-7000/PET-7000 can be accessed by the remote web     browser in the Internet</li> <li>Added an option to change the Modbus ID</li> <li>Added an option to inverse the value of DI counter</li> <li>Broadcasts an ARP request on the local network at 5-minute intervals</li> <li>Web HMI will automatically reconnect to ET-7000/PET-7000 after disconnect</li> </ul>				
	Update:				
	Communication of Web HMI is based on Adobe Flash Player     This content requires the Adobe Flash Player and a browser with Javascript enabled				
	Fixed:				
	1. Commu 2. Cannot	es regarding the Pair-Connection unication may fail when receiving an illegal respons reconnect to remote input device after disconnect is address of remote input device does not accept n		device	

- The preset value will be reset to 0 before clearing the DI counter value
- Host WDT does not work if the WDT timeout was set to 33 seconds or more
- "More Information URL" field does not accept more than 12 characters

## ET-7050/PET-7050

Version	Release	MiniOS7	Function library		
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which vers		
3.0.0	2017-04-26	MiniOS7 2.02.016	CPU 5.2.5	Ethernet 1.3.0	
	2017 01 20	William 21021010	Web Server 2.1.1	Modbus 1.7.2	
	<ul> <li>Added a significant disabled of the significant d</li></ul>	roved features: software low-pass filter to the digital input counter. or programmable. onnection can be enabled and configured to allow ligital outputs over Ethernet  L5 features to build the web interface, which does r	ocal digital inputs to not require Adobe Fla	be mapped to sh Player	
	Change th	ne unit of timeout of the Host Watchdog timer from	1		
2.0.0	2014-04-24	MiniOS7 2.02.015	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2	
	New and imp	roved features:			
	The Modi	pport for new Flash chip bus TCP port can be specified individually for WAN a the web interface for setting up the Pair-Connection			
1.3.1	2012-07-24	MiniOS7 2.02.010			
	New and imp	roved features:	1		
	Improve t	the method for detecting the connection status bet in order to avoid being disconnected from the netw		d the interactive	
1.3.0	2012-03-27	MiniOS7 2.02.010			
	New and imp	roved features:			
	<ul> <li>Verify the new IP address has been changed</li> <li>With the DHCP enabled, the hostname (option 12) can be specified with the "Module Information" setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used.</li> <li>Connection lifetime         Once a Modbus TCP connection has been established, it will be closed after 90 seconds of inactivity     </li> </ul>				
1.2.1	2010-04-28	MiniOS7 2.02.010			
	<ul> <li>New and improved features:</li> <li>Added support for Modbus UDP protocol</li> <li>Added options to specify the IP address and TCP port This method enables the web HMI of internal ET-7000 can be accessed by the remote we the Internet</li> <li>Added an option to change the Modbus ID</li> <li>Added an option to inverse the value of DI counter</li> <li>Broadcasts an ARP request on the local network at 5-minute intervals</li> <li>Web HMI will automatically reconnect to ET-7000 after disconnect</li> <li>Update:</li> <li>Communication of Web HMI is based on Adobe Flash Player This content requires the Adobe Flash Player and a browser with Javascript enabled</li> <li>Fixed:</li> <li>Fixed issues regarding the Pair-Connection 1. Communication may fail when receiving an illegal response from remote input device 2. Cannot reconnect to remote input device after disconnect</li> </ul>				
	The prese     Host WD	is address of remote input device does not accept net value will be reset to 0 before clearing the DI could to the most work if the WDT timeout was set to 33 seformation URL" field does not accept more than 12	nter value econds or more		

### ET-7051/PET-7051

Version	Release	MiniOS7	Function library		
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which vers		
3.0.0	2017-04-26	MiniOS7 2.02.016	CPU 5.2.5 Web Server 2.1.1	Ethernet 1.3.0 Modbus 1.7.2	
	Added a significant disabled as a signi	proved features: software low-pass filter to the digital input counter. or programmable.	·		
	remote d	connection can be enabled and configured to allow I igital outputs over Ethernet			
2.0.0	• Use HTM 2014-04-24	L5 features to build the web interface, which does not be MiniOS7 2.02.015	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2	
	<ul><li>Added su</li><li>The Mod</li><li>Update:</li></ul>	proved features:  pport for new Flash chip  bus TCP port can be specified individually for WAN a  e firmware for both ET-7000 and PET-7000 modules	and LAN		
1.3.1	2012-07-24	MiniOS7 2.02.010			
	<ul> <li>New and improved features:</li> <li>Improve the method for detecting the connection status between the ET-7000/PET-7000 and the interactive modules in order to avoid being disconnected from the network</li> </ul>				
1.3.0	2012-03-27	MiniOS7 2.02.010			
	<ul> <li>New and improved features:</li> <li>Verify the new IP address has been changed</li> <li>With the DHCP enabled, the hostname (option 12) can be specified with the "Module Information" setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used.</li> <li>Connection lifetime Once a Modbus TCP connection has been established, it will be closed after 90 seconds of inactivity</li> </ul>				
1.2.1	2010-04-28	MiniOS7 2.02.010			
	<ul> <li>Added su</li> <li>Added op This meth browser i</li> <li>Added an</li> <li>Added an</li> <li>Broadcas</li> </ul>	proved features:  pport for Modbus UDP protocol  ptions to specify the IP address and TCP port  nod enables the web HMI of internal ET-7000/PET-70  n the Internet  option to change the Modbus ID  option to inverse the value of DI counter  ts an ARP request on the local network at 5-minute  will automatically reconnect to ET-7000/PET-7000 a	intervals	by the remote we	
	Update:				
	<ul> <li>Communication of Web HMI is based on Adobe Flash Player</li> <li>This content requires the Adobe Flash Player and a browser with Javascript enabled</li> </ul>				
	Fixed:				
		et value will be reset to 0 before clearing the DI cour formation URL" field does not accept more than 12			

### ET-7052/PET-7052

Version	Release	MiniOS7	Function library			
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which version of function library the firmware is using.			
3.0.0	2017-04-26	MiniOS7 2.02.016	CPU 5.2.5	Ethernet 1.3.0		
			Web Server 2.1.1	Modbus 1.7.2		
	Added a signal disabled of the signal di	disabled or programmable.  • I/O pair-connection can be enabled and configured to allow local digital inputs to be mapped to remote digital outputs over Ethernet				
	Change tl	ne unit of timeout of the Host Watchdog timer from	second to 0.1 secon	ds		
2.0.0	2014-04-24	MiniOS7 2.02.015	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2		
	New and imp	roved features:				
	<ul><li>The Mod</li><li>Improve t</li><li>Update:</li></ul>	pport for new Flash chip bus TCP port can be specified individually for WAN a the web interface for setting up the Pair-Connection firmware for both ET-7000 and PET-7000 modules				
1.3.1	2012-07-24	MiniOS7 2.02.010				
	New and improved features:  Improve the method for detecting the connection status between the ET-7000/PET-7000 and the interactive modules in order to avoid being disconnected from the network					
1.3.0	2012-03-27	MiniOS7 2.02.010				
	<ul> <li>New and improved features:</li> <li>Verify the new IP address has been changed</li> <li>With the DHCP enabled, the hostname (option 12) can be specified with the "Module Information" setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used.</li> <li>Connection lifetime Once a Modbus TCP connection has been established, it will be closed after 90 seconds of inactivity</li> </ul>					
1.2.1	2010-04-28	MiniOS7 2.02.010				
	<ul> <li>New and improved features:</li> <li>Added support for Modbus UDP protocol</li> <li>Added options to specify the IP address and TCP port     This method enables the web HMI of internal ET-7000/PET-7000 can be accessed by the remote web     browser in the Internet</li> <li>Added an option to change the Modbus ID</li> <li>Added an option to inverse the value of DI counter</li> <li>Broadcasts an ARP request on the local network at 5-minute intervals</li> <li>Web HMI will automatically reconnect to ET-7000/PET-7000 after disconnect</li> <li>Update:</li> <li>Communication of Web HMI is based on Adobe Flash Player     This content requires the Adobe Flash Player and a browser with Javascript enabled</li> </ul>					
	Fixed:					
	1. Commo	tes regarding the Pair-Connection unication may fail when receiving an illegal response reconnect to remote input device after disconnect is address of remote input device does not accept n	-	device		

- The preset value will be reset to 0 before clearing the DI counter value
- Host WDT does not work if the WDT timeout was set to 33 seconds or more
- "More Information URL" field does not accept more than 12 characters

### ET-7053/PET-7053

Version	Release	MiniOS7	Function library		
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which vers		
3.0.0	2017-04-26	MiniOS7 2.02.016	CPU 5.2.5 Web Server 2.1.1	Ethernet 1.3.0 Modbus 1.7.2	
	Added a significant disabled as a signi	proved features: software low-pass filter to the digital input counter. or programmable.	·		
	remote d	connection can be enabled and configured to allow I igital outputs over Ethernet			
2.0.0	• Use HTM 2014-04-24	L5 features to build the web interface, which does not be MiniOS7 2.02.015	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2	
	<ul><li>Added su</li><li>The Mod</li><li>Update:</li></ul>	proved features:  pport for new Flash chip  bus TCP port can be specified individually for WAN a  e firmware for both ET-7000 and PET-7000 modules	and LAN		
1.3.1	2012-07-24	MiniOS7 2.02.010			
	<ul> <li>New and improved features:</li> <li>Improve the method for detecting the connection status between the ET-7000/PET-7000 and the interactive modules in order to avoid being disconnected from the network</li> </ul>				
1.3.0	2012-03-27	MiniOS7 2.02.010			
	<ul> <li>New and improved features:</li> <li>Verify the new IP address has been changed</li> <li>With the DHCP enabled, the hostname (option 12) can be specified with the "Module Information" setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used.</li> <li>Connection lifetime Once a Modbus TCP connection has been established, it will be closed after 90 seconds of inactivity</li> </ul>				
1.2.1	2010-04-28	MiniOS7 2.02.010			
	<ul> <li>Added su</li> <li>Added op This meth browser i</li> <li>Added an</li> <li>Added an</li> <li>Broadcas</li> </ul>	proved features:  pport for Modbus UDP protocol  ptions to specify the IP address and TCP port  nod enables the web HMI of internal ET-7000/PET-70  n the Internet  option to change the Modbus ID  option to inverse the value of DI counter  ts an ARP request on the local network at 5-minute  will automatically reconnect to ET-7000/PET-7000 a	intervals	by the remote we	
	Update:				
	<ul> <li>Communication of Web HMI is based on Adobe Flash Player</li> <li>This content requires the Adobe Flash Player and a browser with Javascript enabled</li> </ul>				
	Fixed:				
		et value will be reset to 0 before clearing the DI cour formation URL" field does not accept more than 12			

### ET-7060/PET-7060

Version	Release	MiniOS7	Function library		
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which vers		
3.0.0	2017-04-26	MiniOS7 2.02.016	CPU 5.2.5 Web Server 2.1.1	Ethernet 1.3.0 Modbus 1.7.2	
	1	roved features: coftware low-pass filter to the digital input counter.	1		
	disabled of the disabled of the disabled of the disabled of the disable of the di	or programmable.  onnection can be enabled and configured to allow ligital outputs over Ethernet	•		
		L5 features to build the web interface, which does r	-	-	
2.0.0	2014-04-24	MiniOS7 2.02.015	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2	
	<ul><li>Added su</li><li>The Modl</li><li>Improve t</li><li>Update:</li></ul>	roved features:  pport for new Flash chip  pus TCP port can be specified individually for WAN a the web interface for setting up the Pair-Connection  firmware for both ET-7000 and PET-7000 modules			
1.3.1	2012-07-24	MiniOS7 2.02.010			
	New and improved features:     Improve the method for detecting the connection status between the ET-7000/PET-7000 and the interactive modules in order to avoid being disconnected from the network				
1.3.0	2012-03-27	MiniOS7 2.02.010			
	<ul> <li>New and improved features:</li> <li>Verify the new IP address has been changed</li> <li>With the DHCP enabled, the hostname (option 12) can be specified with the "Module Information" setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used.</li> <li>Connection lifetime Once a Modbus TCP connection has been established, it will be closed after 90 seconds of inactivity</li> </ul>				
1.2.1	2010-04-28	MiniOS7 2.02.010			
	<ul> <li>New and improved features:</li> <li>Added support for Modbus UDP protocol</li> <li>Added options to specify the IP address and TCP port     This method enables the web HMI of internal ET-7000/PET-7000 can be accessed by the remote web     browser in the Internet</li> <li>Added an option to change the Modbus ID</li> <li>Added an option to inverse the value of DI counter</li> <li>Broadcasts an ARP request on the local network at 5-minute intervals</li> <li>Web HMI will automatically reconnect to ET-7000/PET-7000 after disconnect</li> </ul>				
	Update:				
	Communication of Web HMI is based on Adobe Flash Player     This content requires the Adobe Flash Player and a browser with Javascript enabled				
	Fixed:				
	1. Commu 2. Cannot	es regarding the Pair-Connection unication may fail when receiving an illegal respons reconnect to remote input device after disconnect is address of remote input device does not accept n		device	

- The preset value will be reset to 0 before clearing the DI counter value
- Host WDT does not work if the WDT timeout was set to 33 seconds or more
- "More Information URL" field does not accept more than 12 characters

#### ET-7065

Version	Release	MiniOS7	Function library			
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which version of function library the firmware is using.			
3.0.0	2017-04-26	MiniOS7 2.02.016	CPU 5.2.5 Web Server 2.1.1	Ethernet 1.3.0 Modbus 1.7.2		
	Added a s	roved features: oftware low-pass filter to the digital input counter.	The low-pass filter ca	an be either		
	I/O pair-co	or programmable. onnection can be enabled and configured to allow l gital outputs over Ethernet	ocal digital inputs to	be mapped to		
		_5 features to build the web interface, which does r ne unit of timeout of the Host Watchdog timer from	•	•		
2.0.0	2014-04-24	MiniOS7 2.02.015	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2		
	New and imp	roved features:				
	<ul> <li>Added support for new Flash chip</li> <li>The Modbus TCP port can be specified individually for WAN and LAN</li> <li>Improve the web interface for setting up the Pair-Connection</li> </ul>					
1.3.1	2012-07-24	MiniOS7 2.02.010				
	New and improved features:					
		he method for detecting the connection status bet n order to avoid being disconnected from the netw		d the interactive		
1.3.0	2012-03-27	MiniOS7 2.02.010				
	New and improved features:					
	<ul> <li>Verify the new IP address has been changed</li> <li>With the DHCP enabled, the hostname (option 12) can be specified with the "Module Information" setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used.</li> <li>Connection lifetime</li> </ul>					
1 2 1		odbus TCP connection has been established, it will	be closed after 90 se	conds of inactivity		
1.2.1	2010-04-28	MiniOS7 2.02.010				
	-	New and improved features:				
	<ul> <li>Added support for Modbus UDP protocol</li> <li>Added options to specify the IP address and TCP port         This method enables the web HMI of internal ET-7000 can be accessed by the remote web browser in the Internet     </li> <li>Added an option to change the Modbus ID</li> </ul>					
	Added an option to inverse the value of DI counter					
	<ul> <li>Broadcasts an ARP request on the local network at 5-minute intervals</li> <li>Web HMI will automatically reconnect to ET-7000 after disconnect</li> </ul>					
	Update:					
	<ul> <li>Communication of Web HMI is based on Adobe Flash Player</li> <li>This content requires the Adobe Flash Player and a browser with Javascript enabled</li> </ul>					
	Fixed:					
	<ul> <li>Fixed issues regarding the Pair-Connection</li> <li>1. Communication may fail when receiving an illegal response from remote input device</li> <li>2. Cannot reconnect to remote input device after disconnect</li> </ul>					
		s address of remote input device does not accept n				
	Host WDT	t value will be reset to 0 before clearing the DI could does not work if the WDT timeout was set to 33 sections. Tormation URL" field does not accept more than 12	econds or more			

#### ET-7066

Version	Release	MiniOS7	Function library		
number	date	Signifies which version of MiniOS7 the firmware is running on.	Signifies which version of function library the firmware is using.		
3.0.0	2017-04-26	MiniOS7 2.02.016	CPU 5.2.5 Ethernet 1.3.0  Web Server 2.1.1 Modbus 1.7.2		
	Update:	<u> </u>	Web Server 2.1.1 Woubus 1.7.2		
	Use HTMI	L5 features to build the web interface, which does rope unit of timeout of the Host Watchdog timer from	•		
2.0.0	2014-04-24	MiniOS7 2.02.015	CPU 5.2.5 Ethernet 1.2.8 Web Server 1.2.8 Modbus 1.7.2		
	New and imp	roved features:			
	The Modi	pport for new Flash chip ous TCP port can be specified individually for WAN a he web interface for setting up the Pair-Connectior			
1.3.1	2012-07-24	MiniOS7 2.02.010			
	New and imp	roved features:			
	Improve t	he method for detecting the connection status bet n order to avoid being disconnected from the netw			
1.3.0	2012-03-27	MiniOS7 2.02.010			
	<ul> <li>Verify the new IP address has been changed</li> <li>With the DHCP enabled, the hostname (option 12) can be specified with the "Module Information" setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used.</li> <li>Connection lifetime         Once a Modbus TCP connection has been established, it will be closed after 90 seconds of inactivity     </li> </ul>				
1.2.1	2010-04-28	MiniOS7 2.02.010			
	<ul> <li>Added su</li> <li>Added op This meth the Interr</li> <li>Added an</li> <li>Broadcast</li> <li>Web HMI</li> </ul> Update:	option to change the Modbus ID is an ARP request on the local network at 5-minute will automatically reconnect to ET-7000 after disco	intervals		
	<ul> <li>Communication of Web HMI is based on Adobe Flash Player</li> <li>This content requires the Adobe Flash Player and a browser with Javascript enabled</li> </ul>				
	Fixed issues:				
	1. Commu 2. Cannot 3. Modbu • Host WDT	es regarding the Pair-Connection unication may fail when receiving an illegal respons reconnect to remote input device after disconnect is address of remote input device does not accept in does not work if the WDT timeout was set to 33 so formation URL" field does not accept more than 12	nore than 10255 econds or more		

### ET-7067/PET-7067

Release	MiniOS7	Function library		
date	Signifies which version of MiniOS7 the firmware is running on.			
2017-04-26	MiniOS7 2.02.016	CPU 5.2.5 Web Server 2.1.1	Ethernet 1.3.0 Modbus 1.7.2	
		•	•	
2014-04-24	MiniOS7 2.02.015	CPU 5.2.5 Web Server 1.2.8	Ethernet 1.2.8 Modbus 1.7.2	
New and improved features:      Added support for new Flash chip     The Modbus TCP port can be specified individually for WAN and LAN     Improve the web interface for setting up the Pair-Connection  Update:				
2012-07-24	MiniOS7 2.02.010			
New and improved features:  • Improve the method for detecting the connection status between the ET-7000/PET-7000 and the interactive modules in order to avoid being disconnected from the network				
2012-03-27	MiniOS7 2.02.010			
<ul> <li>Verify the new IP address has been changed</li> <li>With the DHCP enabled, the hostname (option 12) can be specified with the "Module Information" setting. If the setting is not given, the default (icpdas_xx:xx:xx) will be used.</li> <li>Connection lifetime Once a Modbus TCP connection has been established, it will be closed after 90 seconds of inactivity</li> </ul>				
2010-04-28	MiniOS7 2.02.010			
<ul> <li>New and improved features:</li> <li>Added support for Modbus UDP protocol</li> <li>Added options to specify the IP address and TCP port     This method enables the web HMI of internal ET-7000/PET-7000 can be accessed by the ren     browser in the Internet</li> <li>Added an option to change the Modbus ID</li> <li>Broadcasts an ARP request on the local network at 5-minute intervals</li> <li>Web HMI will automatically reconnect to ET-7000/PET-7000 after disconnect</li> <li>Update:</li> <li>Communication of Web HMI is based on Adobe Flash Player     This content requires the Adobe Flash Player and a browser with Javascript enabled</li> <li>Fixed issues:</li> <li>Fixed issues regarding the Pair-Connection     1. Communication may fail when receiving an illegal response from remote input device     2. Cannot reconnect to remote input device after disconnect     3. Modbus address of remote input device does not accept more than 10255</li> </ul>				
	date  2017-04-26  Update:  Use HTM Change the connection of the setting. If Connection of the setting. If Connection of the setting. If Connection of the setting of the setting. If Connection of the setting of the setting of the setting. If Connection of the setting of the se	Signifies which version of MiniOS7 the firmware is running on.  2017-04-26 MiniOS7 2.02.016  Update:  Use HTML5 features to build the web interface, which does recommended to the Host Watchdog timer from MiniOS7 2.02.015  New and improved features:  Added support for new Flash chip The Modbus TCP port can be specified individually for WAN in Improve the web interface for setting up the Pair-Connection Update: The same firmware for both ET-7000 and PET-7000 modules 2012-07-24 MiniOS7 2.02.010  New and improved features: Improve the method for detecting the connection status bethen interactive modules in order to avoid being disconnected from MiniOS7 2.02.010  New and improved features: Verify the new IP address has been changed With the DHCP enabled, the hostname (option 12) can be specifing. If the setting is not given, the default (icpdas_xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Signifies which version of MiniOS7 the firmware is running on.  2017-04-26 MiniOS7 2.02.016 CPU 5.2.5  Web Server 2.1.1  Update:  Use HTML5 features to build the web interface, which does not require Adobe Flae Change the unit of timeout of the Host Watchdog timer from second to 0.1 second CPU 5.2.5  New and improved features:  Added support for new Flash chip The Modbus TCP port can be specified individually for WAN and LAN Improve the web interface for setting up the Pair-Connection  Update:  The same firmware for both ET-7000 and PET-7000 modules  2012-07-24 MiniOS7 2.02.010  New and improved features:  Improve the method for detecting the connection status between the ET-7000/PE interactive modules in order to avoid being disconnected from the network  2012-03-27 MiniOS7 2.02.010  New and improved features:  Verify the new IP address has been changed With the DHCP enabled, the hostname (option 12) can be specified with the "Mo setting. If the setting is not given, the default (icpdas_xx:xx:xxx) will be used.  Connection lifetime Once a Modbus TCP connection has been established, it will be closed after 90 se 2010-04-28 MiniOS7 2.02.010  New and improved features:  Added support for Modbus UDP protocol Added options to specify the IP address and TCP port This method enables the web HMI of internal ET-7000/PET-7000 can be accessed browser in the Internet Added an option to change the Modbus ID Broadcasts an ARP request on the local network at 5-minute intervals Web HMI will automatically reconnect to ET-7000/PET-7000 after disconnect Update:  Communication of Web HMI is based on Adobe Flash Player This content requires the Adobe Flash Player and a browser with Javascript enable Fixed issues:  Fixed issues:  Fixed issues regarding the Pair-Connection Communication may fail when receiving an illegal response from remote input 2. Cannot reconnect to remote input device after disconnect	