ENTRON

Application Note

Instructions to determine iPAK2v2 firmware and Install future Firmware Updates

Firmware Version

Hardware Version

iPAK2v2.12

iPAK2v2 Timer Part Numbers 01-70-28 or 600815

IC.76

February 24 Document no.

Document Revisions

Date	Document Number	Approved By	Document Changes
2/5/2024		Sean Simmons	Initial release

Languages

This document is only published in the English language

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2 | Page

1 Introduction

1.1 Scope

The firmware version uploaded to the control must be compatible with the hardware version. This document outlines the steps to identify the Hardware version of the iPAK2 weld timer and update the firmware using ENTRON's NetFlash software.

1.2 Firmware and Hardware information

The Hardware version can be identified by checking the timer part number. The timer can be identified via the label or using the Netflash software.

1.2.1 Identify By Label

The iPAK2v2 timer has a label on the weld timer. The weld timer will be installed inside the cabinet. To view the label, disconnect power to the weld control and open the cabinet. The iPAK2v2 weld timer will be labeled **01-70-28** or **600815**.

1.2.2 Identify the Timer via Netflash

The Netflash software can be used to connect to the control and view the firmware on the Weld Timer. The iPAK2v2 timers will be identified by the firmware name. All iPAK2v2 timers will have a firmware that start with "IPAK2V2". Navigate to the **Configuration** tab shows the current firmware version.

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3 | Page

Edit control para	🖪 Edit control parameters								
Program Forge dela									
Configuration			Configuration (restart	if changed)		Time on control			
2nd Stage	Off ~		Current limit	36	0 A	Set		Wed 24 Jan 2024 13.58.43	
2nd Stage	Once	O Every	Features	O Standard	Extended				
Contactor	0	s	Weld type	Seam	~	Factory reset			
Stop on Fault			Retract	Off/Simple	~	Initialise		(reopen edit window after us	e)
EOS on Fault			I/O source	Discrete	×.				
Headlock on F	ault								
iPAK(v1) mode	•					Firmware	iP2V2.12	•	
			Local security			Adapter	not found		
			Enable	Off	~				
Units	Metric	Imperial							
Electrodes		Multi							
Program selection	O External	Internal							
Use program	100 -								
Analog control	Off	On							
Analog out	Current waveform ~								
Waveform 10V=	0.000	kA							
Host IP Address 192.168.0.100 Target IP Address 192.168.0.105 Control ID IPAK2 II Tx 🔘 Rx 🔘									

Figure 1: Configuration Tab

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Product Model: iPAK2v2

4 | P a g e

2 Updating Firmware

To update the iPAK2v2 Firmware. First obtain the latest Firmware revision e.g iPAK2v2.12 by contacting ENTRON or downloading from our website.Copy and paste this on the **desktop** of the PC. Now follow the steps in Table 1.

Notice
This update applies to all iPAK2v2 weld timers

Step	Description	Screen / Parameters	
1	Connect to your PC to the iPAK2v2 weld timer via a ethernet cable and open Netflash V1.18		
2	Confirm the Target IP is selected	Host IP Address 192.168.0.100 Target IP Address 192.168.0.105	
3	Select Flash programming tool.		101011 011011 100101 010011
4	Select the current firmware. The file type will be ".hex"	Image: Search of the search	
5	Select the Connect with Control icon. This displays Memory A & Memory B firmware versions	Flash Programming Image: Construction of the system of the syst	Flash Pr

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Product Model: iPAK2v2

5 | Page

Updating Firmware Firmware and Hardware information

Step	Description	Screen / Parameters	
	including Active Memory used		
6	Select the Start Transfer to Control icon.	Flash Programming Image: State	n Programmi 10110 J Dillo g control
7	Choosing either A or B begins the process by first Erasing the chosen memory. and then transferring the file	Flash Programming Image: Select Memory A Flash Programming file Preparing control Connected Getting control status Connected BOOT BIOS update file: BBIOSV1.03 BOOT BIOS update file: BBIOSV1.03 Memory A: IP2V2.09 Active firmware: Memory A Select memory to re-program Memory A: BIOS	Select Memory X Select memory to re-program Memory A Memory B BIOS Cancel
8	Confirm the firmware has been installed to the targeted memory by clicking the Connect to control icon. This displays which Memory has been upgraded and if it is Active .	Flesh Programming Image: Second Sec	Flash Pr
9	Active Firmware: Memory A	Memory A: iP2V2.12 Memory B: iP2V2.09 Active firmware: Memory A	

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Product Model: iPAK2v2

6 | Page

Updating Firmware Firmware and Hardware information

Step	Description	Screen / Parameters	
10	If the upgraded memory is not Active Select the Upgraded memory to activate.	Flash Programming Image: Programming file Preparing control Connected Getting control.status Connected Setting control status Control Upe IFAK2v2 HW: V1.01 RAM: 256k BOOT BIOS: BBIOSV1.03 BOOT BIOS: BUBIOSV1.03 Memory A: IP2V2.12 Memory B: IP2V2.09 Active firmware: Memory B	Memory A: iP2V2.12 Memory B: iP2V2.09 Active firmware: Memory B •
11	Select the Upgraded memory to activate. e.g Memory A	Select Memory X Select memory to activate Memory A Memory B BIOS Cancel	
12	Active Firmware: Memory A Memory A is now ready for activation.	Flash Programming Image: Programming file Preparing control Connected Getting control status Control type iPAK2v2 HW: V101 RAM: 256k BOOT BIOS: BBIOSV1.03 BOOT BIOS update file: BBIOSV1.03 Memory A: iP2V2.12 Memory B: iP2V2.19 Memory ready for activation. Image: Please restart control to complete activation. OK	
13	Select, restart the control to complete activation OK .	Info × Please restart control to complete activation. OK	
14	Select Restart control icon. Then Restart control? Continue	Warning × Restart control? Continue Abort	

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Product Model: iPAK2v2

7 | Page

Updating Firmware Firmware and Hardware information

To confirm the timer is using the updated firmware, this can be observed on the configuration programming screen.	Step	Description	Screen / Parameters	
	15	To confirm the timer is using the updated firmware, this can be observed on the configuration programming screen.	NUMBER	Firmware iP2V2.12 Adapter not found

Table 1: Update Firmware

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8 | Page

3 Technical Support

3.1.1 Internet

The latest version of the documentation and other helpful resources in the ENTRON Document Library page found in the Resource section of the ENTRON website: <u>https://www.entroncontrols.com</u>

3.1.2 Documentation Request

Documentation, user instructions and technical information can be requested by emailing ENTRON Controls at <u>customerservice@entroncontrols.com</u>

Please include your name and email

3.1.3 Service and Technical Support

For service and technical support, we request that customers fill out the Technical Support Form found on our website at link below:



After the web form has been completed, your case will be assigned to one of our technical specialists who will contact you directly.

The service sites are shown in the table below. Please contact the site for your specific region.

Manufacturing Site	Country	Phone	Email	Regions Supported
ENTRON US USA +1-864-416-01		+1-864-416-0190	tech.support@entroncontrols.com	USA, Canada, Europe, Asia, Rest of World
ENTRON MX	Mexico	+52-844-415-9081	soporte@entronmx.com	Mexico, Central America

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9 | Page