# Environment Sensor (USB Type) 2JCIE-BU01 Firmware Update Tool Manual

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### Table of Contents

1. Introduction	3
2. Getting 2JCIE-BU01 firmware package	3
3. Firmware update by PC software	3
3.1. PC software installation	3
3.2. Updating firmware	3
4. Revision History	7

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#### 1. Introduction

This document describes how to update the firmware of the Environment sensor (USB Type) 2JCIE-BU01 using the firmware update tool for PC.

Operating condition: Windows 7 or higher

#### 2. Getting 2JCIE-BU01 firmware package

The firmware package is distributed as a zipped file.

Download the ZIP file "rbt\_sensor\_app\_dfu\_pkg\_xxxx.zip" from the following URL (Software tab) and save it on your desktop.

(xxxx = Firmware revision)

https://www.components.omron.com/product-detail?partId=73065

#### 3. Firmware update by PC software

This section describes how to update the firmware using the tool for PC.

In this procedure, the firmware is transferred to a device or devices via USB. You can transfer the firmware to multiple devices at once.

(Transfer to up to 16 devices has been verified)

#### 3.1. PC software installation

- (1) Download the file "EnvSensorUSB\_DFU\_vx.x.zip" (x.x = software version) from the following URL (software tab) and save it under any folder. https://www.components.omron.com/product-detail?partId=73065
- (2) Unzip "EnvSensorUSB\_DFU\_vx.x.zip".
- (3) Under the folder "EnvSensorUSB\_DFU\_v1.2", double-click "EnvSensorUSB\_DFU.exe" to run.

#### 3.2. Updating firmware

When launched, the following screen appears.

TenvSensorUSB (2JCIE-BU01) DFU ver.1.2		- □ >	< Comparison of the second sec
File (F) 😡 Help (H)			
		Device Scan	
		Firmware Info.	
		Type: -	
		Rev: -	
		Size:	
		Select	
		Start	
		OIIIROI	
			ЛПR
	- 3 -		

(1) Connect the target device(s) to the PC via USB and click [Device Scan].(Multiple devices supported)

EnvS	SensorUS	B (2JCIE-BU01) DFU ver.1												- 1	
File (	(F) 🚱	Help (H)													
#	Port	Description	Mfg.	VID	PID	Model	Serial	HW Rev.	FW Rev.	->	Progress	Result			
01	COM16	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%			Device	e Scan
02	COM13	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	2348MY0004	01.00	00.68	-	0%				
3 03	COM15	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%				
] 04	COM12	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%			Firmware Ir	nfo.
] 05	COM10	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%			Tune:	
														Type.	-
														Rev:	-
														Size:	
														UILC.	
														Sele	ct
34-12	2.705	52-42-28-00-01-0A-18-	32-4A-43-4	19-45-2D-	42-55-30	)-31-32-33-34	-38-40-59-30-	30-30-34-30	)-30-2E-36-	38-3	)=31=2F=30=30=4F=4D=52	0-4F-4F-0B-77		Sele	ct
34:12 34:12	2:706	52-42-28-00-01-0A-18-3 COM13 : Port closed	32-4A-43-4	19-45-2D-	42-55-30	)-31-32-33-34	-38-4D-59-30-3	30-30-34-30	)-30-2E-36-	38-3(	)-31-2E-30-30-4F-4D-52	2-4F-4E-0B-77		Sele	ct
34:12 34:12 34:12	2:706 2:821 2:905	52-42-28-00-01-0A-18- COM13 : Port closed COM15 : Port opened	32-4A-43-4	19-45-2D-	42-55-30	)-31-32-33-34	-38-4D-59-30-3	30-30-34-30	)-30-2E-36-	38-3(	D-31-2E-30-30-4F-4D-52	2-4F-4E-0B-77		Sele	ct
34:12 34:12 34:12 34:12	2:706 2:821 2:905 2:914	52-42-28-00-01-0A-18- COM13 : Port closed COM15 : Port opened Read : Device Informa	32-4A-43-4 ation	19-45-2D-	42-55-30	)-31-32-33-34	1-38-4D-59-30-1	30-30-34-30	)-30-2E-36-	38-30	D-31-2E-30-30-4F-4D-52	2-4F-4E-0B-77		Sele	ct
34:12 34:12 34:12 34:12 34:12	2:706 2:821 2:905 2:914 2:938	52-42-28-00-01-0A-18-3 COM13 : Port closed COM15 : Port opened Read : Device Informa 52-42-05-00-01-0A-18-1	32-4A-43-4 ation FC-8D	19-45-2D-	42-55-30	)-31-32-33-34	l-38-4D-59-30-;	30-30-34-30	I-30-2E-36-	38-3(	D-31-2E-30-30-4F-4D-52	2-4F-4E-0B-77		Sele	ct
84:12 84:12 84:12 84:12 84:12 84:12	2:706 2:821 2:905 2:914 2:938 5:947	52-42-28-00-01-0A-18- COM13: Port closed COM15: Port opened Read : Device Inform 52-42-05-00-01-0A-18- Retry 1	32-4A-43-4 ation FC-8D	19-45-2D-	42-55-30	)-31-32-33-34	-38-4D-59-30-3	30-30-34-30	I-30-2E-36-	38-3(	D-31-2E-30-30-4F-4D-52	2-4F-4E-0B-77		Sele	ct
34:12 34:12 34:12 34:12 34:12 34:12 34:15	2:706 2:821 2:905 2:914 2:938 5:947 5:972	52-42-28-00-01-0A-18- COM13 : Port closed COM15 : Port opened Read : Device Inform 52-42-05-00-01-0A-18- Retry 1 52-42-28-00-01-0A-18-	32-4A-43-4 ation FC-8D 32-4A-43-4	19-45-2D- 19-45-2D-	-42-55-30 -42-55-30	)-31-32-33-34 )-31-30-31-31	I-38-4D-59-30-3	30-30-34-30 30-30-31-30	)-30-2E-36- )-30-2E-36-	38-3(	D-31-2E-30-30-4F-4D-52 D-31-2E-30-30-4F-4D-52	2-4F-4E-0B-77 2-4F-4E-25-93	^	Sele	ct
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34:12 34:12 34:12 34:12 34:12 34:12 34:10 34:10 34:10 34:10 34:10 34:10 34:10 34:10 34:10 34:10	2:706 2:821 2:905 2:914 2:937 5:947 5:947 5:947 5:972 5:02 5:185 5:185 5:185 5:185 5:185 5:185 5:202 5:202 5:222 5:237 5:460 5:470	52-42-28-00-01-0A-18- COM13: Port closed COM15: Port opened Read : Device Inform 52-42-05-00-01-0A-18- 75-42-05-00-01-0A-18- 75-42-05-00-01-0A-18- 52-42-05-00-01-0A-18- 52-42-05-00-01-0A-18- 52-42-05-00-01-0A-18- 52-42-05-00-01-0A-18- 52-42-05-00-10-0A-18- 52-42-05-00-10-0A-18- 52-42-05-00-10-0A-18-	32-4A-43-4 ation FC-8D 32-4A-43-4 ation FC-8D 52-4A-43-4 ation FC-8D	19-45-2D- 19-45-2D- 19-45-2D- 19-45-2D-	42-55-30 42-55-30 42-55-30	D-31-32-33-34 D-31-30-31-31 D-31-30-31-31	1-38-4D-59-30- 1-38-4D-59-30- 1-38-4D-59-30- 1-38-4D-59-30-1	30-30-34-30 30-30-31-30 30-30-31-30	)-30-2E-36- )-30-2E-36- )-30-2E-36- )-30-2E-36-	38-3( 38-3) 38-3( 38-3)	D-31-2E-30-30-4F-4D-52 D-31-2E-30-30-4F-4D-52 D-31-2E-30-30-4F-4D-52 D-31-2E-30-30-4F-4D-52	2-4F-4E-0B-77 2-4F-4E-25-93 2-4F-4E-25-93		Sele	at

A list of devices connected to the PC appears. You can check the current firmware revision.

(2) Click [Select] and select the target firmware package (\*.zip) saved on your desktop.

When selected, the package is validated and its details appear in the [Firmware Info.] field. Check if the firmware revision is proper for updating. (Rev:xx.xx) When validated successfully, [Start] button for starting update is enabled.

🛷 Er	nvSe	ensorUS	8 (2JCIE-BU01) DFU ver.1	.2										-		×
📄 Fi	le (F	) 😡	Help (H)													
	#	Port	Description	Mfg.	VID	PID	Model	Serial	HW Rev.	FW Rev.	->	Progress	Result			
	01	COM16	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%		D	evice Sca	n
	02	COM13	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	2348MY0004	01.00	00.68	-	0%				
	03	COM15	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%				
	04	COM12	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%		Firmwa	re Info	
	05	COM10	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%				
														Type:	APPLICA	
														Rev:	00.6	8
														61		
														Size:	11863	!4
D:\S	tora	ge\Drop	box\02 - Work\01 - Envi	ronment	Sensor\2	ZJCIE-BU	01\dfu_pkg\	rbt_sensor_a	pp_dfu_pk	z_0068.zip	)				Select	
10.24	1420	020	F2 42 0F 00 01 04 10 1													
18:34	:12	958 947	Retry 1	-0-8D									^			
18:34	:15:	972	52-42-28-00-01-0A-18-3	32-4A-43-4	9-45-2D-	42-55-30	)-31-30-31-31	-38-4D-59-30-	30-30-31-30	-30-2E-36-	-38-3	0-31-2E-30-30-4F-4D-52	-4F-4E-25-93			
18:34	:16:	093	COM15 : Port closed													
18:34	1:16:	1/5	COM12 : Port opened Read : Device Informa	tion												
18-34	1.16	202	52-42-05-00-01-04-18-	FC-8D												
18:34	1:16:	222	52-42-28-00-01-0A-18-3	32-4A-43-4	9-45-2D-	42-55-30	)-31-30-31-31	-38-4D-59-30-	30-30-31-30	-30-2E-36-	-38-3	0-31-2E-30-30-4F-4D-52	-4F-4E-25-93		Start	
18:34	:16:	337	COM12 : Port closed													
18:34	:16:	460	COM10 : Port opened													
18:34	:16:	470	Read : Device Informa	ation												
18:34	:16:	478	52-42-05-00-01-0A-18-	FC-8D												
18:34	:16:	490	52-42-28-00-01-0A-18-3	32-4A-43-4	9-45-2D-	42-55-30	)-31-30-31-31	-38-4D-59-30-	30-30-31-30	-30-2E-36-	-38-3	0-31-2E-30-30-4F-4D-52	-4F-4E-25-93			
18:34	16:	605	COMIU : Port closed	Deserves	02	-N 01 E			011041							
10.35	1.52	000	Verifying Firmware	(bropbox	02 - Wor	K(01 - EI	wironment	sensor\ZJCIE-I	ooutatu_p	rot_se	INSO	_app_oru_pkg_0068.21	P			
18-40	0.02	941	Firmware has been s	uccesfull	verified									05		-
18:40	0:03:	950	Type : APPLICATION	Rev	: 00.68	Si	ze : 118624							OI	IRC	ווכ
													~			

- (3) In the device list, make sure that the check box(es) of the target device(s) are selected (☑). You can select or unselect the check box to update the device. (By default the check box is selected (☑)) Unselect the check box if you do not want to update the device.
- (4) Click [Start] to perform update.

\$	EnvS	ensorUS	B (2JCIE-BU01) DFU ver.1	.2											-		×
	File (	F) 🔞	Help (H)														
	#	Port	Description	Mfg.	VID	PID	Model	Serial	HW Rev.	FW Rev.	->	Progress	Result				
	01	COM16	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%					
	] 02	COM13	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	2348MY0004	01.00	00.68	-	0%					
	] 03	COM15	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%					
	] 04	COM12	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%			Firmwa	re Info	
	] 05	COM10	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	0%			Tune:		TION
															type.	AFFLICA	
															Rev:	00.6	8
															Size		
															0.20.	1186.	24
	_										_						
D:	\Stor	age\Dro	obox\02 - Work\01 - Envi	ironment	Sensor\	2JCIE-BU	01\dfu_pkg\	rbt_sensor_a	pp_dfu_pk	g_0068.zip							
18	45:13	:652	52-42-09-00-02-1A-51-3	31-88-82-/	A6-77-26									~			
18	45:13	:765	COM13 : Port closed														
18	45:13 45-19	:796	DFU command execut COM15 : Port opened	tion on CC	DM13												
18	45:13	:856	Write : DFU mode														
18	45:13	:872	52-42-09-00-02-1A-51-5	31-88-82-/	46-77-26												
18	45:13	:997	COM15 : Port closed														
18	45:14	:008	DFU command execut	ion on CC	M15												
18	45:14	:039	COM12 : Port opened														
18	45:14	051	Write : DFU mode	01 00 01 /	16 77 DE												
18	45-14	201	COM12 : Port closed	31-00-02-/	40-77-20												
18	45:14	:217	DFU command execut	ion on CC	M12												
18	45:14	:251	COM10 : Port opened														
18	45:14	:264	Write : DFU mode														
18	45:14	:279	52-42-09-00-02-1A-51-3	31-88-82-/	46-77-26												
18	45:14	:397	COM10 : Port closed												ОП		חר
18:	45:14	:411	DFU command execut	tion on CC	DM10											IX	<b>711</b>
														$\sim$			

The target device(s) transition to the DFU mode and the white LED of the environment sensor turns ON.

<i>?</i>	EnvS	ensorUSI	8 (2JCIE-BU01) DFU ver.1	.2										-		×
	File (	F) 🔞	Help (H)													
	#	Port	Description	Mfg.	VID	PID	Model	Serial	HW Rev.	FW Rev.	->	Progress	Result			
	01	COM16	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	48%		D		
	02	COM13	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	2348MY0004	01.00	00.68	-	48%				
	] 03	COM15	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	48%				
	] 04	COM12	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	48%		Firmwa	re Info.	
	05	COM10	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	-	48%				
														Type:	APPLICATIO	JN
														Rev:	00.68	
														Cinco	Г	=
														Size:	118624	· · ·
D:	\Stor	age\Dro	box\02 - Work\01 - Envi	ronment	Sensor\	UCIE-BU	01\dfu_pkg\	rbt_sensor_a	pp_dfu_pk	g_0068.zip				5		
18	45-50	-130	Progress report on CO	M15 - 37 9	6											
18	45:50	:147	Progress report on CO	M12 : 37 9	6								· · · · · · · · · · · · · · · · · · ·			
18	45:50	:158	Progress report on CO	M10 : 37 9	6											
18	45:52	:293	Progress report on CO	M16:419	6											
18	45:52	:329	Progress report on CO	M13 : 41 9	6											
10	45:52	1355	Progress report on CO	M15:415	6 1											
18	43.32	-395	Progress report on CO	M10 · 41 9	6											
18	45-54	:522	Progress report on CO	M16 - 44 9	6											
18	45:54	:553	Progress report on CO	M13 : 44 9	6											
18	45:54	:569	Progress report on CO	M15 : 44 9	6											
18	45:54	:584	Progress report on CO	M12 : 44 9	6											
18	45:54	:628	Progress report on CO	M10 : 44 9	6											
18	45:56	:799	Progress report on CO	M16 : 48 9	6											
18	45:56	:853	Progress report on CO	M13 : 48 9	6											
18	45:56	:877	Progress report on CO	M15 : 48 9	6											_
18	45:56	:892	Progress report on CO	M12:489	6									ОП	סקו	n
10	40.00	.915	Progress report on CO	WI101:48 7	0											
													· · · · · · · · · · · · · · · · · · ·			

The transfer status of each device's firmware is indicated as the progress bar on the device list. When all data are transferred and the devices are automatically reset, the firmware revision after the update is loaded.

If the data transfer failed during update, an error is displayed in the [Result] field. If an error occurred in a device, start from the step (1) after all processes are completed.



(5) Make sure that in the device list the firmware revision after update ([->] field) is proper.

🫷 E	invS	ensorUS	8 (2JCIE-BU01) DFU ver.1	.2										—		×
F	ile (l	•) 😡	Help (H)													
	#	Port	Description	Mfg.	VID	PID	Model	Serial	HW Rev.	FW Rev.	->	Progress	Result			
	01	COM16	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	00.68	100%	SUCCESS		levice Scar	
	02	COM13	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	2348MY0004	01.00	00.68	00.68	100%	SUCCESS		conce bean	·
	03	COM15	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	00.68	100%	SUCCESS			
	04	COM12	2JCIE-BU01 Serial Port	OMRON	0x00D4	0x0590	2JCIE-BU01	0118MY0001	01.00	00.68	00.68	100%	SUCCESS	Firmwa	are Info	
F	05	COM10	2ICIE-BU01 Serial Port	OMBON	0x00D4	0x0590	2ICIE-BU01	0118MY0001	01.00	00.68	00.68	100%	SUCCESS			
				-										Type:	APPLICAT	TION
														Rev:	00.68	8
														Size:	11862	24
D:\!	Stora	ge\Dror	box\02 - Work\01 - Envi	ronment	Sensor\	2ICIE-BU	01\dfu_pkg\	rbt sensor a	on dfu nki	7 0068 zin				1	Select	
0.0		Bc (010)			oenser (		er (ana_phe)		pp_oro_pri	<u></u>						
18:4	6:42	308	52-42-28-00-01-0A-18-3	32-4A-43-4	9-45-2D	-42-55-30	0-31-32-33-34	-38-4D-59-30-	30-30-34-30	-30-2E-36-	38-30-3	31-2E-30-30-4F-4D-52-4F	-4E-0B-77 ^			
18:4	6:42	492	COM15 : Port opened													
18:4	6:42	515	Read : Device Informa	ation												
18:4	6:42	536	52-42-05-00-01-0A-18-F	C-8D												
18:4	6:42	567	52-42-28-00-01-0A-18-3	32-4A-43-4	9-45-2D	42-55-30	0-31-30-31-31	l-38-4D-59-30-	30-30-31-30	-30-2E-36-	38-30-3	31-2E-30-30-4F-4D-52-4F	-4E-25-93			
18:4	6:42	684	COM15 : Port closed												Start	
18:4	6:42	729	COM12 : Port opened												Juan	
18:4	6:42	757	Read : Device Informa	ation												
18:4	6:42	769	52-42-05-00-01-0A-18-F	-C-8D									45.05.00			
10.4	0:42	791	52-42-28-00-01-0A-18-3	52-4A-43-4	9-45-20	42-55-31	J-51-50-51-51	-58-40-59-30-	50-50-51-50	-30-2E-36-	38-30-:	51-20-50-4F-4D-52-4F	-46-20-95			
10:4	0:42 6-42	020	COM12 . Port closed													
19-4	6-42	051	Pead : Device Informa	tion												
18-4	6.42	962	52-42-05-00-01-0A-18-E	C-8D												
18-4	6.42	985	52-42-28-00-01-0A-18-3	32-4A-43-4	9-45-2D	42-55-30	0-31-30-31-31	-38-4D-59-30-	30-30-31-30	-30-2F-36-	38-30-3	31-2E-30-30-4E-4D-52-4E	-4E-25-93			
18:4	6:43	101	COM10 : Port closed					10-35-50		20 22 30		10 00 11 10 02 41		0		
18:4	6:43	149	DFU process complete	ed.										OI	וואכ	71
_																

(6) Now firmware update is complete.

To end the tool, close it.

If you apply the same firmware to another device, detach the updated device(s) from the USB port(s), attach new target device(s), and run [Device Scan] again.

As the target firmware has already been loaded, you can start from the step (3).





#### 4. Revision History

#	Revision	Date	Change
1	1.0	30 <sup>th</sup> Sep. 2018	Released

