

# Appendix J: LVS<sup>®</sup> 95XX Factory Calibration Not Found

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#### **GS1 Solution Partner**



# Disclaimer

The information and specifications described in this manual are subject to change without notice.

# Latest Manual Version or Technical Support

For the latest version of this manual, or for technical support, see your local Omron website. Your local Omron website can be located by visiting https://www.ia.omron.com and selecting your region from the Global Network panel on the right side of the screen.

### Security Measures

#### Anti-Virus Protection

Install the latest commercial-quality antivirus software on the computer connected to the control system and maintain to keep the software up to date.

#### Security Measures to Prevent Unauthorized Access

- Take the following measures to prevent unauthorized access to our products:
  Install physical controls so that only authorized personnel can access control systems and equipment.
  Reduce connections to control systems and equipment via networks to prevent access from untrusted devices.
  - Install firewalls to shut down unused communications ports and limit communications hosts and isolate control systems ٠ and equipment from the IT network. Use a virtual private network (VPN) for remote access to control systems and equipment.

  - Adopt multifactor authentication to devices with remote access to control systems and equipment.

  - Set strong passwords and change them frequently. Scan for viruses to ensure safety of USB drives or other external storage devices before connecting them to control systems and equipment.

#### **Data Input and Output Protection**

Validate backups and ranges to cope with unintentional modification of input/output data to control systems and equipment. Check the scope of data.

- Check validity of backups and prepare data for restore in case of falsification or abnormalities.
- Safety design, such as emergency shutdown and fail-soft operation in case of data tampering or abnormalities.

#### **Data Recovery**

Back up and update data periodically to prepare for data loss.

When using an intranet environment through a global address, connecting to an unauthorized terminal such as a SCADA, HMI or to an unauthorized server may result in network security issues such as spoofing and tampering.

You must take sufficient measures such as restricting access to the terminal, using a terminal equipped with a secure function, and locking the installation area by yourself.

When constructing an intranet, communication failure may occur due to cable disconnection or the influence of unauthorized network equipment. Take adequate measures, such as restricting physical access to network devices, by such means as locking the installation area.

When using a device equipped with the SD Memory Card function, there is a security risk that a third party may acquire, alter, or replace the files and data in the removable media by removing or unmounting the removable media. Please take sufficient measures, such as restricting physical access to the controller or taking appropriate management measures for removable media, by means of locking the installation area, entrance management, etc.

#### Software

To prevent computer viruses, install antivirus software on the computer where you use this software. Make sure to keep the antivirus software updated.

Keep your computer's OS updated to avoid security risks caused by a vulnerability in the OS. Always use the latest version of this software to add new features, increase operability, and enhance security. Manage

usernames and passwords for this software carefully to protect them from unauthorized uses. Set up a firewall (e.g., disabling unused communication ports, limiting communication hosts, etc.) on a network for a control system and devices to separate them from other IT networks.

Make sure to connect to the control system inside the firewall. Use a virtual private network (VPN) for remote access to a control system and devices from this software.

# **Errors and Error Messages**

Factory calibration settings must be restored if any of the following errors or error messages occur while operating the LVS-95XX software.

The steps in this document guide you through restoring factory calibration settings using the LVS-95XX installation media supplied with your system purchase. If you do not have the original LVS-95XX installation media, contact your local Omron distributor or Omron Technical Support for assistance.

Error 1								
Welcome	Setup	Calibration	Grading	Zoom	SRP View	Structure	Archive	1
Last Calibra	ted On		Enter te param	est card neters	Calibratio	on label Mils	13	
Print			Show ins	tructions	Effecti∨e Fie	e aperture   Id of view	06 3"	
DE UF		No valu column	es are entere on the "Calib	ed in the "Go pration" tab.	al" od Co Ivrodu	lability ??.? ontrast ??.? ilation ??.?	87 87 87 87 87 88	
		2 3 4 5 6 7 8 BUTY:	901 5 35,2, %	1		Rmax 7?.?	71	
			4.9 %		Calik	Calibrate	eded	
Error 2					Error 3			
Calibration Require	d			X				
					Missing	Factory Ca	alibration	
The sys The sys	tem has de tem must b	tected that it is e calibrated aga	out of calibratior ain.	n.	8	Initial facto	ry calibration	not found.
			ОК				ок	

Follow the steps below if any of the above errors or error messages occur while operating the LVS-95XX software.

1. The procedures in this document require you to identify certain folders, files, and file type extensions. To ensure all folders, files, and file type extensions are displayed on your computer:

a. Click the "File" tab and select Options.

File			
Open new window		Frequent places	
optin <u>H</u> errin meter		1 Desktop	*
Open Windows PowerShe	al →	2 Downloads	*
		3 OneDrive -	*
§ Options			
•			
<u>Help</u>	•		

- b. The Folder Options dialog will be displayed. Select the "View" tab.
  - Select Show hidden files, folders, and drives.
  - Uncheck Hide extensions for known file types.
  - Click "**Ok**." All files, folders, drives, and file type extensions now appear in Windows Explorer.

Folder Op	otions		×
General	View	Search	
Folde	er views	You can apply this view (such as Details or Icons) to all folders of this type. Apply to Folders Reset Folders	
Advan	ced setti	ngs:	
	Alway: Alway: Displa Displa Displa Hidden Sh Hide e Hide e	s show icons, never thumbnails s show menus y file icon on thumbnails y file size information in folder tips y the full path in the title bar n files and folders ont show hidden files, folders, or drives now hidden files, folders, and drives moth drives witchnistons for known file types older merge conflicts	
		Restore Defaults	
		OK Cancel Appl	y

2. Log on to the LVS-95XX software. Click the "Archive" tab, and then click the "Change SQL connection" button.

Welcome	Setup	Calibrati	on G	Fading	Zoom	SRP View	Structure	Archive
			ReportID	SectorID	LcITime	Reference	OverallGrade	De
			494	1	22-Dec-2009 10:2	1	4.0/10/660 (A)	000
			495	1	22-Dec-2009 10:2	1	4.0/10/660 (A)	000
1001 4			496	1	22-Dec-2009 10:2	1	4.0/10/660 (A)	000
0 *** 233	5*67893		497	1	22-Dec-2009 10:2	5	4.0/10/660 (A)	000
OECODARI.	R <u>20.00</u>	8	498	1	22-Dec-2009 10:3	6	4.0/10/660 (A)	000
CONTRACT	CONTRART 80 3 70 NODLLATON 87.67		499	1	22-Dec-2009 10:4	7	2.7/06/660 (B)	012
B.O.LA'O			500	1	22-Dec-2009 10:4	7	2.7/06/660 (B)	012
			501	1	22-Dec-2009 10:4	7	2.7/06/660 (B)	012
Import in	nage from file		502	1	22-Dec-2009 10:4	7	2.8/06/660 (B)	012
Export	image to file		503	1	22-Dec-2009 10:4	8	2.8/06/660 (B)	012
Decentron	arte (leet 20 deur	37777	504	1	22-Dec-2009 10:4	8	1.0/06/660 (D)	012
Recent rep	ons flast 50 days	2	505	1	22-Dec-2009 10:4	8	2.7/06/660 (B)	012
Delete prio	r to specific dat	e	506	1	22-Dec-2009 10:4	8	3.7/06/660 (A)	012
Software	version history		507	1	22-Dec-2009 10:4	8	3.7/06/660 (A)	012
Audit	trail report		508	1	22-Dec-2009 10:4	8	3.7/06/660 (A)	012
Calibr	ation report		509	1	22-Dec-2009 10:4	8	3.7/06/660 (A)	012
Defer	anon report		510	1	29-Dec-2009 11:0	8	4.0/06/660 (A)	012
Kelen	ence report	- 1	511	1	29-Dec-2009 11:0	8	4.0/06/660 (A)	012 -
Export r	eference data		4					•
Change S	QL connection	2				@ P	review results in	above table
Create ba	ickup database					C G	enerate HTML file	e (for printing)
Browse ba	ackup database							
Query: Select ReportID, SectorID, LcITime, Reference, OverallGrade, DecodedText Fre Execute query								

3. Make a note of the "Data Source" path; you will access this path in an upcoming step.

Setup Connection to SQL Database	Setup	Calibration	
ODBC connect	ion string:		
Provider=Micro	soft.Jet.OLED	)B.4.0;	
User ID=Admir	ı;		
Data Source=C	:\Users\Public	c\LVS-95XX\LVS	S-95XX.mdb;
Mode=ReadW	rite;		
Jet OLEDB:Sy	stem database	<b>;=""</b> ;	
Jet OLEDB:Re	gistry Path=""	•	

- 4. Close the LVS-95XX software and make sure all other computer programs and windows are closed.
- 5. Insert the LVS-95XX installation media supplied with your system into your computer.

6. Click the "Start" button located in the bottom, left corner of the screen, and then click "Computer."



- 7. Double-click the USB flash media drive (usually the D:\ drive).
- 8. Locate the factory .mdb file.

File Home Share View Mai	nage						
Pin to Quick access     Copy     Paste     Copy path       Pinto Quick access     Copy     Paste     Paste shortcut       Clipboard     Clipboard     Clipboard	Move to * Uo * Copy to * Copy to *	New item •	Properties • Open • • Edit • History Open	Select all Select none Invert selection Select			
$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\blacksquare$ $\Rightarrow$ This PC $\Rightarrow$ USB Drive (D:)							
	Name	Date m	odified Type	Size			
> 🗶 Quick access	LVS	7/18/20	16 8:08 AM File folder				
> 💪 OneDrive	OtherSetup	7/18/20	16 8:10 AM File folder				
🗸 💻 This PC	Autorunini	6/7/201	6 2:57 PM Setup Info	ormation 1 KB			
> Desktop	Ivs9580_1622627.mdb	9/16/20	16 10:06 AM Microsoft	Access 14,180 KB			
> 🗎 Documents	Manadoloat	6/6/201	6 7:35 PM Windows	Batch File 1 KB			
> 🕹 Downloads	Co Setup.exe	6/7/201	6 2:56 PM Applicatio	on 192 KB			

If using LVS-95XX software version **3.0.9J or later**, right-click on the 8-digit numerical .mdb file and select "Copy."

- Click on the C:\ drive and navigate to the path noted in step 3. Example: C:\Users\Public\LVS-95XX\LVS-95XX.mdb. Paths differ based on the type of operating system.
- 10. Right-click on the screen and select "Paste." The .mdb file (LVS-95XX.mdb or 8-digit numerical .mdb, depending on your LVS-95XX software version) is pasted in the folder.
- 11. If the 8-digit numerical .mdb is pasted into the folder, rename the file to LVS-95XX.mdb.
- 12. Log on to the LVS-95XX software. Verify that the software calibrates correctly by clicking the "**Calibration**" tab. Place either of the Master Grade barcodes (located on the supplied Calibrated Conformance Standard Test Card) into the center of the field of view, ensuring that the blue line passes through the "PASS" portion of the calibration label. Click "**Calibrate**."

Successful calibration is indicated by a green "Calibration OK" message in the bottom, right corner of the screen (see example image below). Proceed with step 13.

Failed calibration is indicated by a red "Calibration Needed" message. If calibration fails, contact your local Omron distributor or Omron Technical Support.



- 13. Verify that the software grades correctly by following the steps below:
  - With the Calibrated Conformance Standard Test Card in the field of view, click the "**Grading**" tab.
  - Grade the barcode image by drawing a box around the PASS portion of the barcode, ensuring enough space for the quiet zone.
  - Verify that the "Overall grade" and barcode parameters are shaded green (indicating a passing grade); this is an indication that grading works correctly.

**Note:** Refer to the "Grading tab" section in the "LVS-95XX Series Barcode Quality Station Operations Manual" (electronic copy located on the installation media) for detailed steps on grading barcodes.

Calibration Welcome Setup Grading Zoom SRP View Structure Archive ISO/IEC Parameters erall grade ISO Grading: Pass/Fail Full C 2D: CC, PDF, DM, etc. ID: linear 4.0/10/660 /iew · Decodability 012345678905 (A) Overall grade <UPC-A master grade> Defects Contrast rint | □ OCR AUTO Modulation Zoom Symbology: UPC-A For best results, place the barcode as close to the center of the image as possible Xdim: 13.0 mils 100% Edge determ: PASS USING 6 MIL APERTURES Min Reflect: PASS Click for more information m EC: PASS 65% EAN-13 MASTER GRADE UPC-A MASTER GRADE Decode: PASS 154 Bar code parameters Quiet zone: PASS Contrast: 4.0 (A) 77% Modulation: 4.0 (A) 84% 85.6 1 86.7 1 Decodability: 4.0 (A) 85% DECO 82.8 1 82.1 1 CONTRA Defects: 4.0 (A) 7% MODULATION 84.1 1 86.1 MODULATION Blemish: 4.0 (A) 0% 2.5-3.4 1.5-2.4 0.5-1.4 0.0-0. (C) (D) (B) (F) WARNING: This symbol should use application standard GS1

Appendix J: LVS-95XX Factory Calibration Not Found

14. If any of the above steps fail to work correctly, contact your local Omron distributor or Omron Technical Support.