



The Productivity Devices Company

Guardian 2.0

System Commissioning Document



Customer Name _____

Account Number _____ Commission Date _____

Prepared by: _____

Vektek LLC 1334 East Sixth Ave. P.O. Box 625 Emporia, Ks. 66801 U.S.A.	Instruction Sheet	IS3302		
		REV:	A	
		REV. BY/DATE:	BDC	3/25/25
		APPR/DATE:	BCD	4/7/25
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Introduction

This document serves as the official commissioning report for the Guardian 2.0 System, a state-of-the-art wireless pressure monitoring solution designed to enhance operational efficiency and safety within CNC machine operations. The commissioning process is a critical phase, ensuring that the Guardian 2.0 System is installed, configured, and functioning as intended, seamlessly integrating into the existing infrastructure to provide real-time pressure feedback from hydraulic fixtures to CNC machine controllers.

The purpose of this commissioning report:

- Document the installation and configuration of the Guardian 2.0 System at the customer's site.
- Verify that all components of the system are operating correctly in their designated environments.
- Ensure compatibility and optimal performance within the customer's existing CNC machinery setup.
- Provide a reference for system specifications, settings, and performance metrics as established during the commissioning process.

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Customer and Site Information

End User Name _____
 Street Address _____
 City _____
 State _____
 Zip Code _____
 Country _____

Project Main Contact

Name _____
 Title _____
 Email _____
 Work Phone _____
 Cell Phone _____

Additional Contacts/Installer Information

Name _____
 Company _____
 Title _____
 Email _____
 Work Phone _____
 Cell Phone _____

Name _____
 Company _____
 Title _____
 Email _____
 Work Phone _____
 Cell Phone _____

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Commissioning Information

Machine Integration:

Make	
Model Number	
Serial Number	
Local Reference for Machine Center	
Fault Circuit Integration Details	
Pallet Management System Details	

System Configuration

Master Control Unit (MCU): PN#33-0112-10	
Date Code	
Serial/Unit Number	
Software Version	

Pallet ID Reader: PN#33-0120-40 <i>(Mark as "N/A" if not used)</i>	
Date Code	
Serial/Unit Number	
Software Version	

Location Details (facility machine center local name, manufacturer, model number, serial number, load station at machine, load station in pallet pool, inside machine, etc)

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Technical Specifications and Performance

MCU Parameters:

RFID Set Power _____

RFID Set Mode _____

In-Cycle Mode _____

RFID Scan Inputs

FTU Input: NO NC

Number of Pallets with Guardian in Cell: _____

Fixture Transmitter Unit (FTU) Details - *please collect images:*

**All fixtures containing a Guardian FTU must be available and presented to the reading area of the MTR to ensure proper FTU position, RSSI value, verification of Guardian MCU alarm function, and machine center response to Guardian alarm command.*

FTU Unit Number	
Version No. (In Bat. Housing)	
Pallet No. (In MCU)	
Local Fixture Ref. No.	
Operating Pressure	
Pressure Switch Set Point	
RSSI Value When In-Cycle Activated	
MCU Alarm signal output verified	YES <input type="checkbox"/>
Machine Alarm Response Verified	YES <input type="checkbox"/>
Single <input type="checkbox"/> Dual <input type="checkbox"/> Quad <input type="checkbox"/>	

FTU Unit Number	
Version No. (In Bat. Housing)	
Pallet No. (In MCU)	
Local Fixture Ref. No.	
Operating Pressure	
Pressure Switch Set Point	
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Approval

Commissioning
Personnel Name: _____

Signature: _____

Date: _____

Facility Representative
Name: _____

Signature: _____

Date: _____

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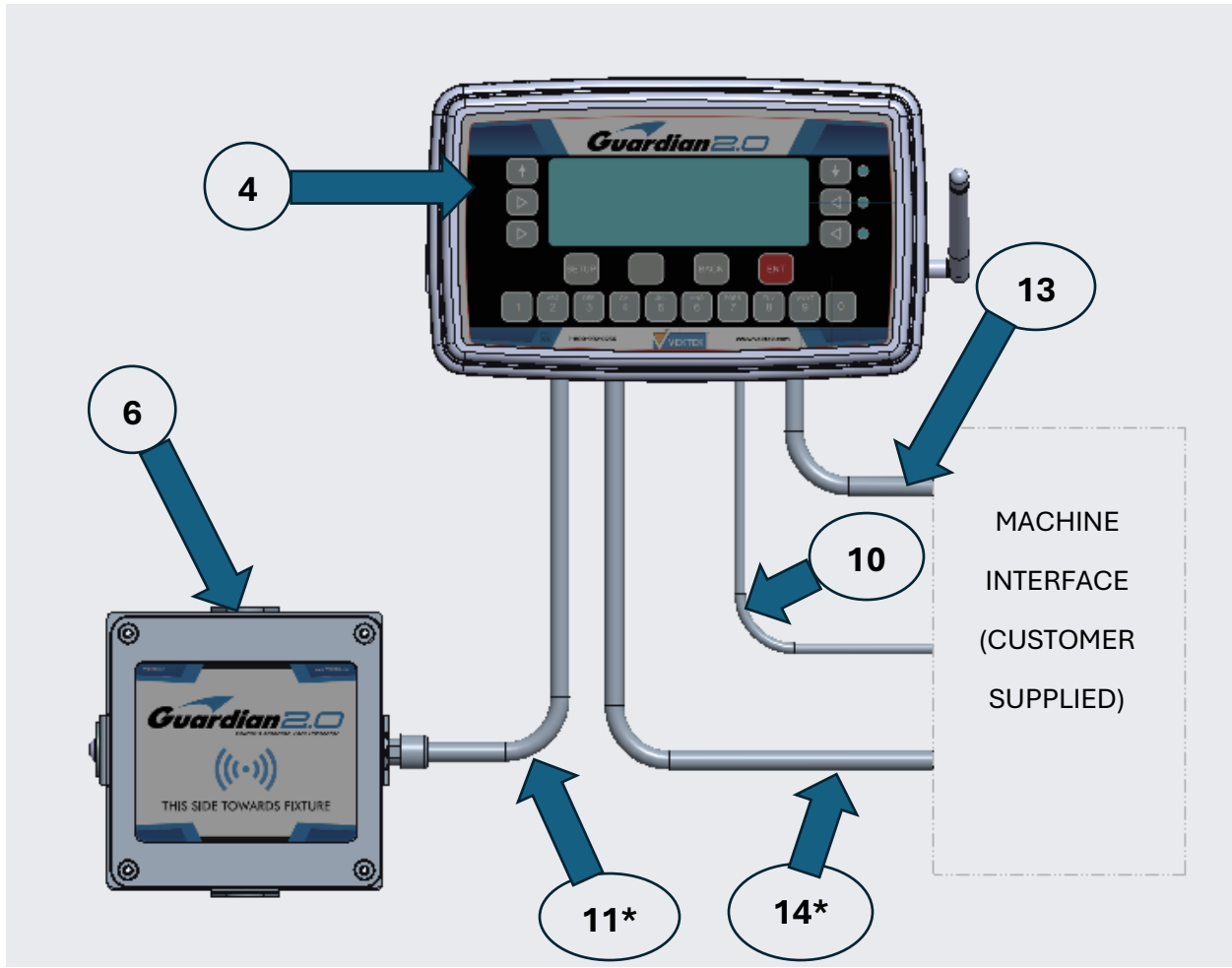
Appendices

Available Component List

Part Number	Description	REF.
33-0120-30	Fixture Transmitter	1
27-8422-04	Dual Splatter	2
27-8422-04	Quad Splitter	3
33-0120-01	Master Control Unit	4
33-0110-15	Pressure Setter/Checker	
33-0120-40	Pallet ID Reader	6
70-7500-74	Pressure Switch with M8 Male Connection only	7
70-7500-78	Pressure Switch with 19 Inch Cable	
27-5222-04	Three Pin Pressure Switch Bypass	
27-5424-00	M8 3 Pin Male Connector (Optional with RS-232)	10
27-9422-01	M12 5 Pin Male Connector	11
27-7424-01	M8 Shielded Cable	12
27-7424-05	M12 12 Pin	13
27-7424-06	M12 8 Pin	14
33-0120-41	Pallet RFID Tag	
33-0120-42	Pallet RFID Tag for Manual Fixtures	

Additional notes

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* USE CABLE 11 IF WORKING WITH A PALLET ID READER, USE CABLE 14 FOR PALLET ID THROUGH MACHINE INTERFACE. DO NOT USE BOTH CABLES ON THE SAME SETUP.

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