VEKTEK®

The Productivity Devices Company

Guardian 2.0

System Commissioning Document



Customer Name _____

Account Number _____ Commission Date _____

Prepared by: _____

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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.

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 _____

Commissioning Information

Machine Integration:

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

System Configuration

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

Pallet ID Reader: PN#33-0120-40 *(Mark as "N/A" if not used)*	
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)

Installation Overview

Installation Image Checklist:

Pallet ID Reader Installation Image ☐
MCU Installation Image ☐
FTU Installation Image ☐
ID Tag Images (If Used) ☐
Cable Management Image ☐

Schematic or Installation Information: (If available, otherwise describe the setup)

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 ☐
Machine Alarm Response Verified	YES ☐
Single ☐ Dual ☐ Quad ☐	

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 ☐
Machine Alarm Response Verified	YES ☐

Single ☐ Dual ☐ Quad ☐	
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 ☐
Machine Alarm Response Verified	YES ☐
Single ☐ Dual ☐ Quad ☐	

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 ☐

Machine Alarm Response Verified	YES ☐
Single ☐ Dual ☐ Quad ☐	
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 ☐
Machine Alarm Response Verified	YES ☐
Single ☐ Dual ☐ Quad ☐	

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 ☐
Machine Alarm Response Verified	YES ☐
Single ☐ Dual ☐ Quad ☐	

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 ☐
Machine Alarm Response Verified	YES ☐
Single ☐ Dual ☐ Quad ☐	

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 ☐
Machine Alarm Response Verified	YES ☐
Single ☐ Dual ☐ Quad ☐	

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 ☐
Machine Alarm Response Verified	YES ☐
Single ☐ Dual ☐ Quad ☐	

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 ☐
Machine Alarm Response Verified	YES ☐
Single ☐ Dual ☐ Quad ☐	

Approval

Commissioning Personnel Name: _____

Signature: _____

Date: _____

Facility Representative Name: _____

Signature: _____

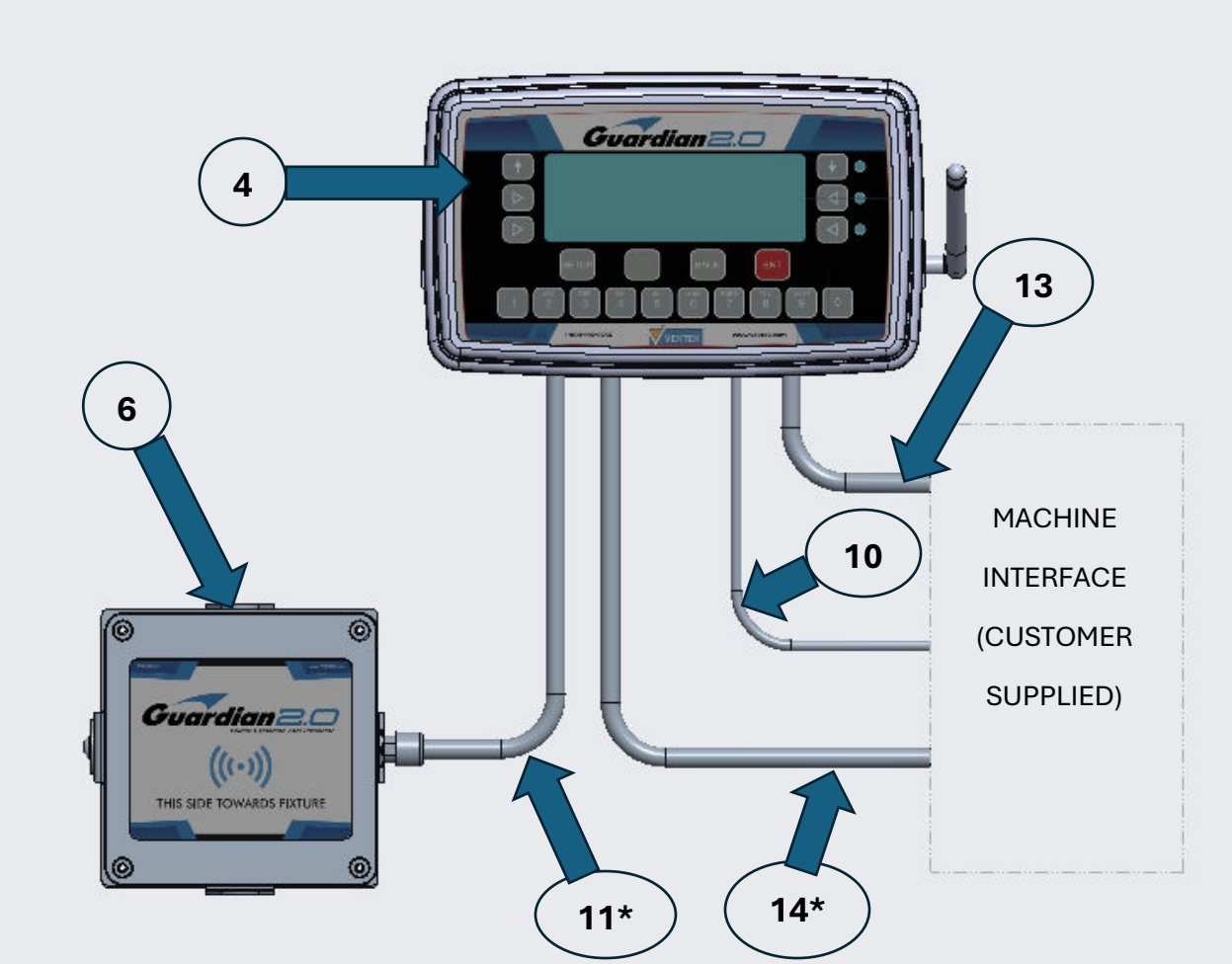
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Appendices

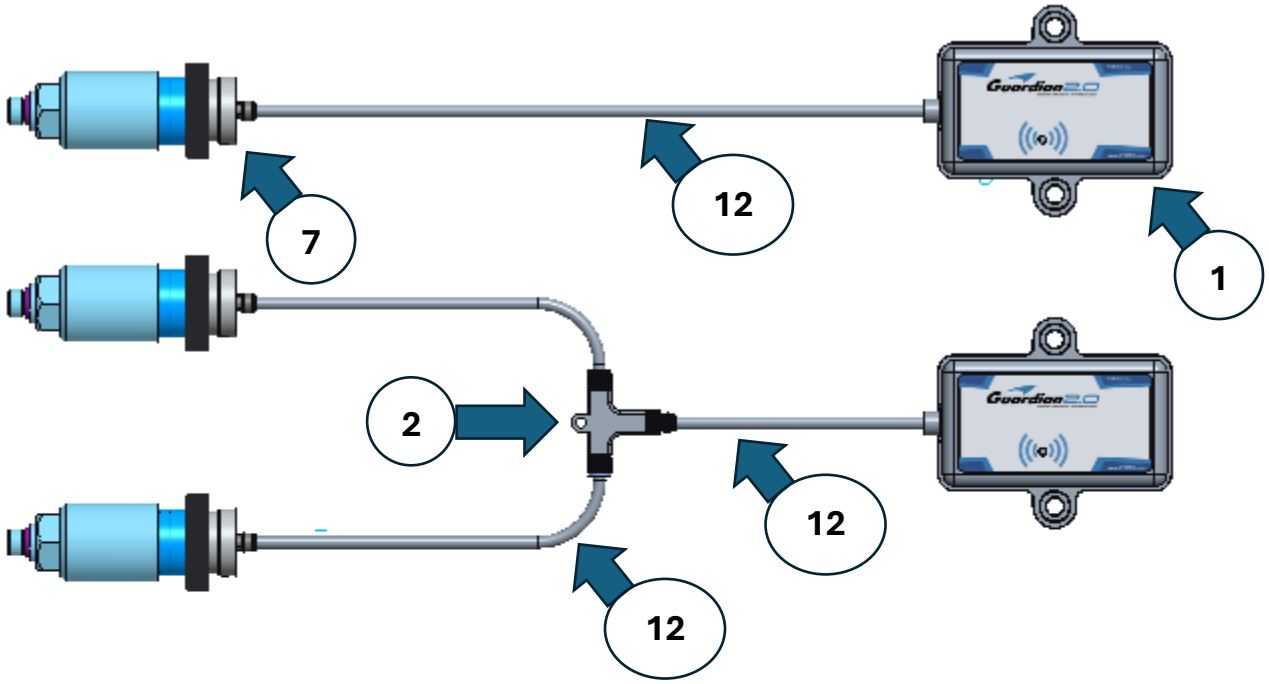
Available Component List

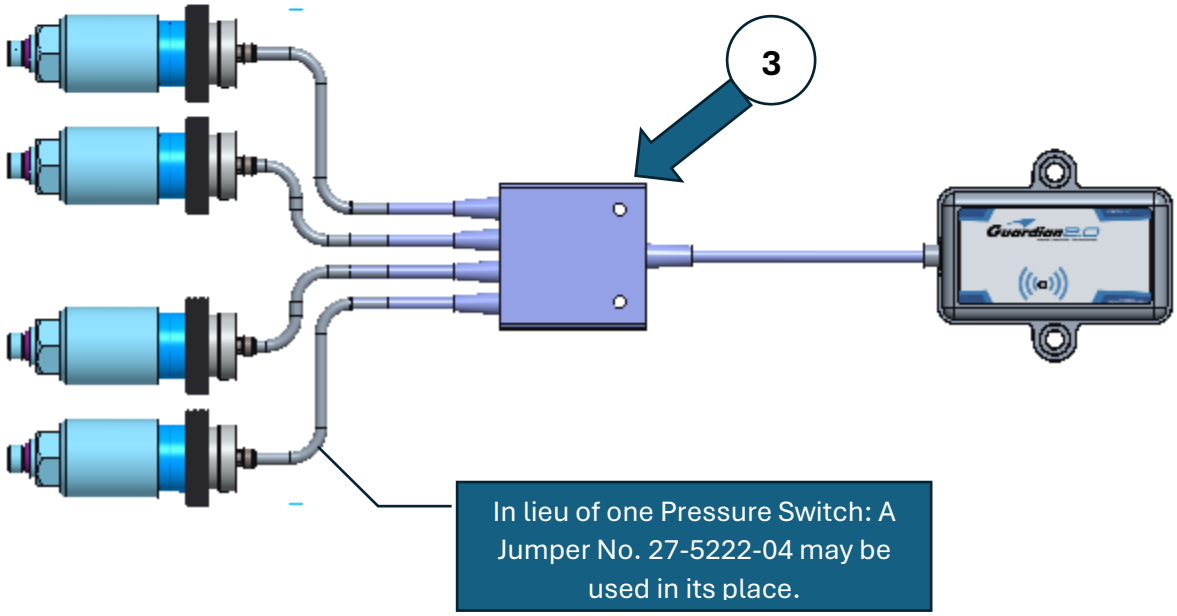
Part Number	Description	REF.
33-0120-30	Fixture Transmitter	1
27-8422-04	Dual Splatter	2
27-8422-04	Quad Splitter	3
33-0120-01	Master Control Unit	4
33-0110-15	Pressure Setter/Checker	
33-0120-40	Pallet ID Reader	6
70-7500-74	Pressure Switch with M8 Male Connection only	7
70-7500-78	Pressure Switch with 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



* 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.


7
12
1
2
12
12


3
In lieu of one Pressure Switch: A Jumper No. 27-5222-04 may be used in its place.