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Installation Guide

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RICE LAKE 1280 Indicator Programmable Weight Indicator and Controller



Specifications

Power Requirements

Bus Adapter Card with Modbus TCP Module, DC Power

- Supply Voltage 6 VDC
- Current Draw 100 mA
- Maximum Current Draw 300 mA
- Power Consumption 1.8 W

Communications Specifications

- Twisted-pair cabling up to 100Mbps/s

Environmental Specifications

- Temperature Range
- Certified 14° to 104° F (-10° to 40° C)
- Operating -4° to 131° F (-20° to 55° C)

- **Conformance**



Product Usage Instructions

Installation

Follow the installation instructions provided in the manual to install the Modbus TCP Interface inside the indicator enclosure. Ensure the indicator is placed in a suitable NEMA Type 4X stainless steel enclosure for washdown environments.

Configuring the Network Settings

Refer to section 3.0 of the manual for detailed instructions on configuring the network settings for the Modbus TCP Interface.

Commands

Section 4.0 provides information on output data format, byte swapping, and command descriptions. Familiarize yourself with these commands to effectively communicate with the indicator using the Modbus TCP Interface.

COMPATABILITY NOTICE:

If card no longer communicates correct data, change SWAP parameter to “BYTE” in the indicator

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- The most current version of this publication, software, firmware and all other product updates can be found on our website: www.ricelake.com

Revision History

This section tracks and describes manual revisions for awareness of major updates.

Revision	Date	Description
G	February 29, 2024	Established revision history; Added first and second generation option card details

Table i. Revision Letter History

Technical training seminars are available through Rice Lake Weighing Systems. Course descriptions and dates can be viewed at www.ricelake.com/training or obtained by calling [715-234-9171](tel:715-234-9171) and asking for the training department.

Introduction

- The Modbus TCP Interface can be used to read and write data to the indicator using a PLC or another primary controller. This manual provides information for installation and use of this product.

- The Modbus TCP Interface is installed inside the indicator enclosure and installation in NEMA Type 4X stainless steel enclosures permits use in washdown environments.
- See the indicator technical manual for additional installation information and detailed descriptions of indicator functions.

WARNING: Some procedures described in this manual require work inside the indicator enclosure. These procedures are to be performed by qualified service personnel only.

- Manuals and additional resources are available on the Rice Lake Weighing Systems website at www.ricelake.com
- Warranty information can be found on the website at www.ricelake.com/warranties

Overview

The primary controller communicates by sending commands through the Modbus TCP Interface to the indicator. The indicator responds to the primary controller with data and status depending on the command sent. These actions are referred to as polled response.

FCC Compliance

United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Installation

- Modbus TCP Interface specific functions are provided by a Modbus TCP module.
- The module plugs into an open slot on the CPU board and provides power and access from the indicator bus to the module.
- **IMPORTANT:** See the indicator technical manual for installation instructions.
- The interface option cards of the 1280 Enterprise Series indicator share the same carrier board (PN 164756). The carrier board plugs into an open slot on the CPU board and provides power and access from the indicator bus to the module. 1280 interface option card kits are shipped with the module and carrier board already assembled.



Carrier Board



Carrier Board with Module

Figure 2-1. Interface Option Card Kit

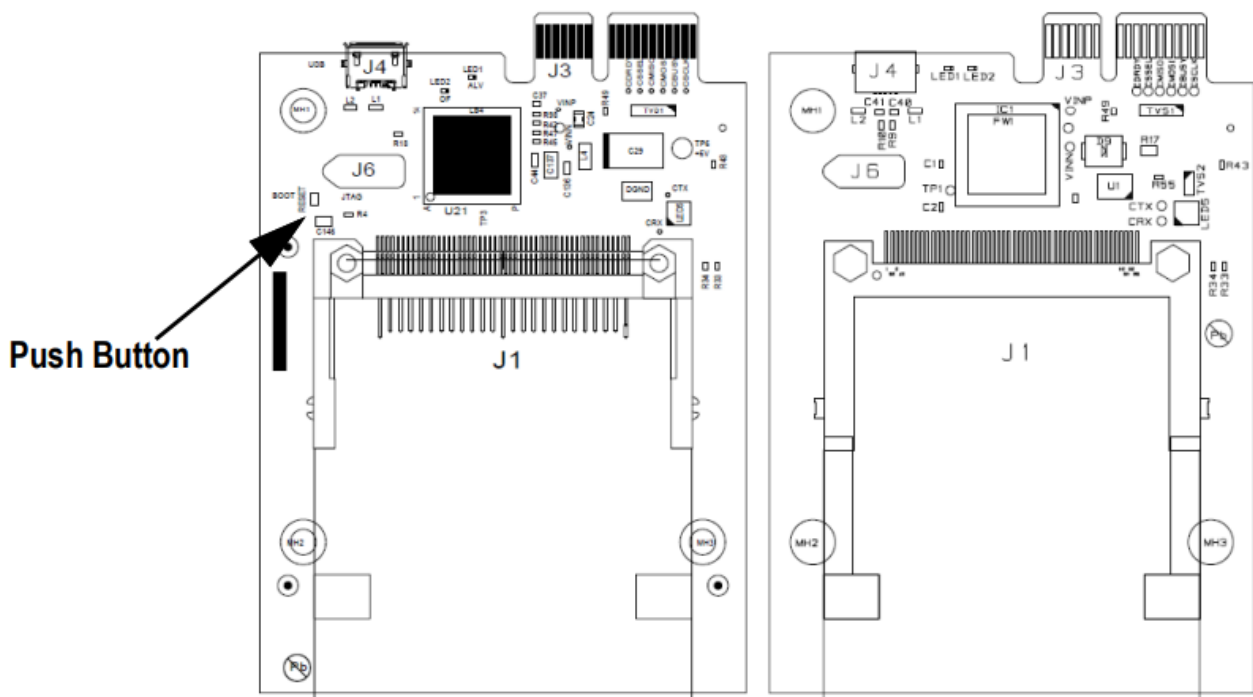


Figure 2-2. Second Generation (left) and First Generation (right) Boards

Card Generation	Identifying Characteristics
First Generation	green board
Second Generation	blue board, push button

Table 2-1. Option Card Identification Information

NOTE: Only second-generation cards (blue boards) can have the firmware updated. See the 1280 Enterprise Technical Manual (PN 167659) for further instructions.

- The indicator automatically recognizes all installed option cards when the unit is powered on. No hardware-specific configuration is required to identify an installed card to the system.
- **WARNING:** Always disconnect the power before opening an enclosure.
- Interface option cards are not hot swappable.
- **CAUTION:** A grounding wrist strap must be worn to protect components from electrostatic discharge (ESD) when working inside an enclosure or controller assembly.

Installation Instructions

1. Disconnect power to the indicator.
2. See the 1280 technical manual (PN 167659) to gain access to the Controller Assembly box for the specific model.
3. Remove the screw securing the intended slot cover plate of the Controller Assembly box, set the slot cover plate aside and save the screw.
4. Mount the faceplate on module and slide module board assembly into place within the slot.
5. Secure the faceplate and module board assembly into place with the previously removed screw.

NOTE: Interface cable is routed through a cord grip in Universal and Wall mount enclosures.

Alternately, a chassis mounted connect can be installed in the enclosure.

6. See 1280 technical manual to reinstall the Controller Assembly box.

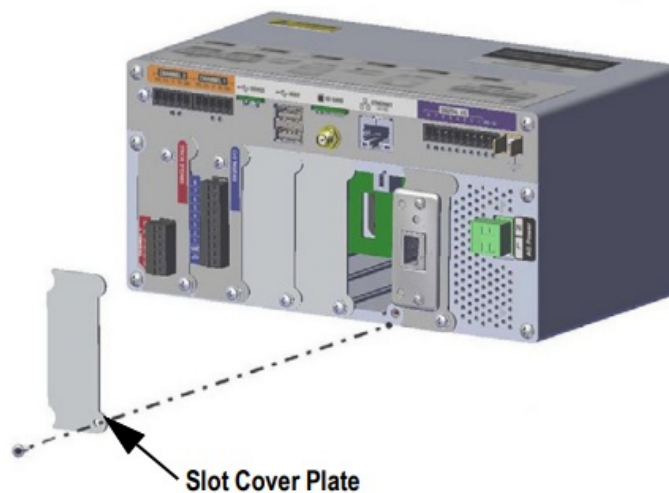


Figure 2-3. Existing Cover Plate Removal



Figure 2-4. Installed Interface Option Card

LED Status Indicators

An LED array on the Modbus TCP Interface module provides status information for troubleshooting.



Figure 2-5. Modbus TCP Status LED Module

NOTE: A test sequence is performed on this LED 1 and 2 during startup.

Network Status LED (Item 1)

LED State	Description
Off	No power or no IP address
Green	Module is in Process Active or Idle state
Green, Flashing	Waiting for connections
Red	Duplicate IP address, FATAL event
Red, Flashing	Process Active Timeout

Module Status LED (Item 2)

LED State	Description
Off	No power
Green	Normal operation
Red	Major fault; Module is in state EXCEPTION (or FATAL event)
Red, Flashing	Minor fault in diagnostic object; IP conflict

Link/Activity LED (Item 3)

LED State	Description
-----------	-------------

Off	No link, no activity
Green	Link established
Green, Flickering	Activity

Table 2-4. Link/Activity LED

RJ45 Port (Item 4)

The Modbus TCP interface supports 10/100Mbit, full or half duplex operation.

1280 Modbus TCP Interface

Configuring the Network Settings

Configuring the network setting is done using a web browser or the Anybus IP configuration utility. To set the network settings using a web browser.

1. Open a browser and type the IP address of the card.
2. Change any or all settings.
3. Click on Store settings.

To set the network settings using the Anybus IP Configuration program.

1. Open the configuration program.
NOTE: The configuration program can be found at the following link:
<https://www.ricelake.com/media/rbuicpx3/tb-us-197149-ipconfig.pdf>
2. Click on Scan button if the device does not display in the menu.
3. Double click on the device. A menu is displayed with the current network settings.
4. Change any or all settings.
5. Click on the Set button.

Anybus CompactCom Modbus-TCP

► Network interface ► Parameter data

Anybus CompactCom Modbus-TCP

Network interface

Serial#:	0xA01C5F32
MAC ID:	00:30:11:09:F5:9A
Firmware version:	3.03 Build 1
Uptime:	0 days, 0h 6m 24s
CPU load:	2%

► Main ► Network configuration
► Network statistics

Figure 3-1. Modbus TCP Interface Display in a Web Browser

Anybus CompactCom Modbus-TCP

Network configuration

IP Configuration	
IP address:	10.2.58.68
Subnet mask:	255.255.255.0
Gateway:	10.2.58.1
Host name:	
Domain name:	corp.rlws.com
DNS1:	10.2.91.72
DNS2:	10.2.91.24
DHCP:	☐
Store settings	

SMTP Settings	
SMTP Server:	
SMTP User:	
SMTP Pswd:	
Store settings	

Ethernet Configuration	
Comm Settings:	Auto ▼
Store settings	

Modbus Configuration	
Conn tmo (s):	60
Process tmo (ms):	0
Word order:	Little-endian ▼
Store settings	

► Main ► Network interface

Figure 3-2. Modbus TCP Configuration Menu in a Web Browser

Commands

Commands are used by the primary device to send and receive data from the interface as integer or floating-point data. The primary sends eight bytes in the output format to write commands to the indicator and reads eight bytes in the input format to read data from the indicator.

Decimal Point Handling

Integer commands return no decimal point information to the primary. For example, a value of 750.1 displayed on the indicator is returned to the primary as 7501. Floating point commands support decimal point information with no special handling.

Output Data Format

To perform a command, the primary uses the output command format to send four 16-bit words to the interface. These four words contain the command and the necessary parameters to execute it. The output command format is shown in Table 4-1.

Byte	Register V 1.02 and Earlier	Register V 1.03 and Later	Description
Byte 0	40005	40001	Command Number
Byte 1			
Byte 2	40006	40002	Parameter
Byte 3			
Byte 4	40007	40003	Value (MSW)
Byte 5			
Byte 6	40008	40004	Value (LSW)
Byte 7			

Table 4-1. 1280 Output Data Format

NOTE:See Section 4.1.1 on page 15 for BYTE swapping parameters.

- A lockout feature, incorporated into the indicator receive mechanism, looks for change in the output format data to prevent inundation by the same command.
- See affected commands noted in Table 4-2 on page 13 with an (*).
- Repeated commands must be separated by any other valid command/parameter/value combination.

Parameter Value

In communication with a multi-scale indicator, the scale number is sent in the second word of the output command format. Zero (0) represents the current scale. Certain commands require a parameter other than a scale number, such as a slot number, setpoint number, or other selection parameter. See the command descriptions in Section 4.3 on page 19 for specific command requirements.

Value

The third and fourth words of the output format are used to pass value data on certain commands. Values entered in these words are treated as unsigned long integers or floating-point values, depending on the command.

Command Number

- The number representing the indicator command is sent in the first word.
- Table 4-2 lists the commands that can be specified for indicators.
- Some commands may not be available on all indicators.

Decimal	Hex	Command
0	0x000	Return Status and Weight (integer)
1	0x001	Display Channel
2	0x002	Display Gross Weight
3	0x003	Display Net Weight
9	0x009	Gross/Net key press (toggle)

10	0x00A	Zero*
11	0x00B	Display Tare*
12	0x00C	Enter Tare*
13	0x00D	Acquire Tare*
14	0x00E	Clear Tare*
16	0x010	Primary Units
17	0x011	Secondary Units
18	0x012	Tertiary Units
19	0x013	Units key press (toggle units)
20	0x014	Print Request
21	0x015	Display Accumulator
22	0x016	Clear Accumulator
23	0x017	Push Weight to Accumulator
32	0x020	Return Gross (integer)
33	0x021	Return Net (integer)
34	0x022	Return Tare (integer)
37	0x025	Return Current Display (integer)
38	0x026	Return Accumulator (integer)
39	0x027	Return Rate of Change (integer)
95	0x05F	Set Batching State
96	0x060	Batch Start

97	0x061	Batch Pause
98	0x062	Batch Reset
99	0x063	Batch Status

Table 4-2. Remote Commands

Decimal	Hex	Command
112	0x070	Lock Indicator Front Panel
113	0x071	Unlock Indicator Front Panel
114	0x072	Set Digital Output ON
115	0x073	Set Digital Output OFF
116	0x074	Read Digital I/O Status
128	0x80	Enable Bus Command Handler
253	0x0FD	No operation
254	0x0FE	Reset Indicator
256	0x100	Return Status and Weight (float)
268	0x10C	Enter Tare (float)
288	0x120	Read Gross (float)
289	0x121	Read Net (float)
290	0x122	Read Tare (float)
293	0x125	Read Current Display (float)
294	0x126	Read Accumulator (float)

295	0x127	Read Rate of change (float)
304	0x130	Set Setpoint Value (float)
305	0x131	Set Setpoint Hysteresis (float)
306	0x132	Set Setpoint Bandwidth (float)
307	0x133	Set Setpoint Preact (float)
320	0x140	Read Setpoint Value (float)
321	0x141	Read Setpoint Hysteresis (float)
322	0x142	Read Setpoint Bandwidth (float)
323	0x143	Read Setpoint Preact (float)

Table 4-2. Remote Commands (Continued)

BYTE Swapping

NOTE: See the Ports Menu in the indicator manual.

- The indicator sends and receives data in integer format.
- The standard format is as follows for all input and output values:
- High BYTE – Low BYTE
- If the indicator FLDBUS/SWAP parameter is set to YES, then the BYTE order changes to:
 - Low BYTE – High BYTE
- Example: If the weight on the scale reads 10 lbs and a value of 2560 is displayed in the PLC, either swap the BYTES in the PLC or change the SWAP parameter to YES.

Input Data Format

- The interface returns data and status information to the primary as four 16-bit words in response to a command. The input command format is shown in Table 4-3.

- The value type can be set for commands not specifying integer or floating point data by sending the command 0x000 to specify integer data, or sending command 0x100 to specify floating-point data. The value type is returned in the status word (bit 14) of the input format.

IMPORTANT: The register values for Carrier Board (PN 153093) changed with V 1.03 as shown in Table 4-3.

Byte	Register V 1.02 and Earlier	Register V 1.03 and Later	Description
Byte 0	40001	40257	Command Number
Byte 1			
Byte 2	40002	40258	Status
Byte 3			
Byte 4	40003	40259	Value (MSW)
Byte 5			
Byte 6	40004	40260	Value (LSW)
Byte 7			

Table 4-3. 1280 Input Data Format

- See Section 4.1.1 for BYTE swapping parameters.

Command Number

The first word echoes the command number. If the command fails or is not recognized, the negative of the command number is returned to signal the error.

Status Data

Indicator status data is returned in the second word (Table 4-4). Batch commands return batch status in place of the low byte (Table 4-5 on page 17). Setpoint commands return batch status in the low byte of the status word and the setpoint number in the high byte.

Word 2 Bit	Indicator Status Data	
	Value=0	Value=1
00	Error ** (Bit-0 Errors on page 17)	No error
01	Tare not entered	Tare entered
02	Not center of zero	Center of zero
03	Weight invalid	Weight OK
04	Standstill	In motion
05	Primary units	Other units
06	Tare not acquired	Tare acquired
07	Gross weight	Net weight
08	Channel number NOTE: Least significant bit first.	
09		
10		
11		
12		
13	Not used	
14	Integer data	Floating point data

15	Positive weight	Negative weight
This error condition does not necessarily mean the weight being reported is invalid. Refer to the “Weight invalid” bit.		

Table 4-4. Indicator Status Data Format

Bit-0 Errors

- PLC command failed to execute
- No configuration has taken place
- Scale parameter is out of range
- Print error has occurred
- Load error has occurred
- Memory error has occurred
- Analog to digital converter error
- Tare error
- Scale over range error
- Scale under range error
- Non-recoverable configuration store error
- Indicator in configuration mode

Word 2 Bit	Batch Function Status Data	
	Value=0	Value=1
00	Digital input 4 OFF	Digital input 4 ON
01	Digital input 3 OFF	Digital input 3 ON
02	Digital input 2 OFF	Digital input 2 ON
03	Digital input 1 OFF	Digital input 1 ON
04	Batch not paused	Batch paused

05	Batch not running	Batch running
06	Batch not stopped	Batch stopped
07	Alarm OFF	Alarm ON
08	Setpoint number	
09		
10		
11		
12		
13	Not used	
14	Integer data	Floating point data
15	Positive weight	Negative weight

Value

Weight data is returned to the primary in the third and fourth words of the input command format, depending on the command and the value type. The weight data returned is the displayed weight after the command is executed, unless the command specifies otherwise. A negative value is returned in the two's complement format.

Setting a Float Value

Setting a float value in a setpoint requires the value to be sent in two separate integer values. Most PLCs have a mechanism to take a float value and separate it into two integer values.

Example: The following must be sent in the output words to set the value of Setpoint #1 to 10000.

- Command word = 304
- Parameter word = 1

- MSW = 17948
- LSW = 16384

Reading a Float Value

When a float value is read it will be returned in two integers representing the float value.

The PLC must combine MSW and LSW integer values back into a float value.

Example: The following is returned in the input words if the weight on the scale is 800.5.

- Command Word = 288
- Status word = Scale status
- MSW= 17480
- LSW = 8192

Command Descriptions

Return Status and Current Weight as Integer

- Command: 0, 0x000
- Parameter: Scale number
- Command 0 returns the status and gross or net scale weight (per scale configuration) of the specified scale in integer format, without changing the display. This command also causes the format-
- independent commands to return a value in the integer format.

Display Channel

- Command: 1, 0x001
- Parameter: Scale number
- Command 1 causes the weight of the specified scale to be displayed and returned in its current mode and format.

Display Gross Weight

- Command: 2, 0x002

- Parameter: Scale number
- Command 2 causes the gross weight of the specified scale to be displayed and returned.

Display Net Weight

- Command: 3, 0x003
Parameter: Scale number
- Command 3 causes the net weight of the specified scale to be displayed and returned.
- Gross/Net Key Press (Toggle Mode)
- Command: 9, 0x009
Parameter: Scale number
- Command 9 toggles between gross and net mode (and count mode, if enabled). If a scale number other than 0 is specified, the action will not be seen until the specified scale is displayed.

Zero

- Command: 10, 0x00A
- Command 10 performs a ZERO operation on the current scale.

Display Tare

- Command: 11, 0x00B
- Parameter: Scale number
- Command 11 causes the tare weight on the specified scale to be displayed. If a scale number other than 0 is specified, the indicator first causes the specified scale to be displayed. Display returns to the prior mode after checking the indicator.

Enter Tare (Integer)

- Command: 12, 0x00C
- Parameter: Scale number
- Value: Tare weight
- Command 12 enters a tare for the scale selected. Tare data must be in integer format.

- The indicator continues to return weight data in the current mode for the specified scale.

Acquire Tare (Simulate TARE Key Press)

- Command: 13, 0x00D
- Parameter: Scale number
- Command 13 acquires a tare based on the weight currently on the specified scale.
- The indicator continues to return weight data in the current mode for the specified scale.

Clear Tare

- Command: 14, 0x00E
- Parameter: Scale number
- Command 14 clears the tare for the specified scale.
- The indicator continues to return weight data in the current mode for the specified scale.

Primary Units

- Command: 16, 0x010
- Parameter: Scale number
- Command 16 switches the current format of the specified scale to the primary units configured for that scale.

Secondary Units

- Command: 17, 0x011
- Parameter: Scale number
- Command 17 switches the current format of the specified scale to the secondary units configured for that scale.

Tertiary Units

- Command: 18, 0x012
- Parameter: Scale number
- Command 18 switches the current format of the specified scale to the tertiary units configured for that scale, if available.

Units Key Press (Toggle Units)

- Command: 19, 0x013
- Parameter: Scale number
- Command 19 toggles between primary and secondary units of the specified scale.

Print Request

- Command: 20, 0x014
- Parameter: Scale number
- Command 20 causes the indicator to execute a print command for the current scale.

Display Accumulator

- Command: 21, 0x015
- Parameter: Scale number
- Command 21 causes the value of the accumulator for the specified scale to be displayed and returned. This command is valid only when the accumulator for the specified scale is enabled.

Clear Accumulator

- Command: 22, 0x016
- Parameter: Scale number
- Command 22 clears the value of the accumulator for the specified scale.
- This command is valid only when the accumulator for the specified scale is enabled.

Push Weight to Accumulator

- Command: 23, 0x017

- Parameter: Scale number
- Command 23 adds the net weight on the specified scale to the value of the accumulator for the specified scale. The scale must return to net zero between accumulations.
- The indicator returns the accumulated weight data for the specified scale.
- This command is valid only when the accumulator for the specified scale is enabled.

Return Gross as Integer

- Command: 32, 0x020
- Parameter: Scale number
- Command 32 returns the gross weight value for the specified scale as an integer.

Return Net as Integer

- Command: 33, 0x021
- Parameter: Scale number
- Command 33 returns the net weight value for the specified scale as an integer.

Return Tare as Integer

- Command: 34, 0x022
- Parameter: Scale number
- Command 34 returns the tare weight value for the specified scale as an integer.

Return Current Display as Integer

- Command: 37, 0x025
- Parameter: Scale number
- Command 37 returns the weight value for the specified scale as currently displayed.
- This may include gross, net, tare, or accumulator values, as enabled.

Return Accumulator as Integer

- Command: 38, 0x026

- Parameter: Scale number
- Command 38 returns the accumulator value for the specified scale.
- This command is valid only when the accumulator for the specified scale is enabled.

Return Rate of Change as Integer

- Command: 39, 0x027
- Parameter: Scale number
- Command 39 returns the current rate of change value for the specified scale.
- This command is valid only for the 1280.

Set Batching State

- Command: 95, 0x05F
- Parameter: State (0 = off; 1 = auto; 2 = manual)
- Command 95 sets the batching (BATCHNG) parameter. Indicator status is returned with the current weight for the last scale specified.

Batch Start

- Command: 96, 0x060
- Parameter: Scale number
- Command 96 starts a batch program from the current step after a stop, pause, or reset. Batch status is returned with the current weight for the specified scale.

Batch Pause

- Command: 97, 0x061
- Parameter: Scale number
- Command 97 pauses a batch program at the current step.
- Batch status is returned with the current weight for the specified scale.

Batch Reset

- Command: 98, 0x062

- Parameter: Scale number
- Command 98 stops a batch program and resets it to the first batch step.
- Batch status is returned with the current weight for the specified scale.

Batch Status

- Command: 99, 0x063
- Parameter: Scale number
- Command 99 returns the status of a batch. Batch status is returned with the current weight for the specified scale.

Lock Front Panel of Indicator

- Command: 112, 0x070
- Parameter: Scale number
- Command 112 disables all the keys on the front panel of the indicator.
- Indicator status is returned with the current weight for the specified scale.

Unlock Front Panel of Indicator

- Command: 113, 0x071
- Parameter: Scale number
- Command 113 re-enables all the keys on the front panel of the indicator.
- Indicator status is returned with the current weight for the specified scale.

Set Digital Output ON

- Command: 114, 0x072
- Parameter: Slot number
- Value: Bit number
- Command 114 sets the specified digital output ON (active). Use slot number 0 for onboard digital outputs. Indicator status is returned with the current weight for the last scale specified.

Set Digital Output OFF

- Command: 115, 0x073
- Parameter: Slot number
- Value: Bit number
- Command 115 sets the specified digital output OFF (inactive). Use slot number 0 for onboard digital outputs. Indicator status is returned with the current weight for the last scale specified.

Read Digital I/O

- Command: 116, 0x074
- Parameter: Slot number
- Command 116 returns the status for all digital I/O in the specified slot in words 3 and 4. Use slot number 0 for onboard digital I/O. Indicator status is returned in the status area for the last scale specified.

Enable Bus Command Handler

- Command: 128, 0x80
- Parameter: None
- Command 128 enables the bus command handler in a user program.
- While this handler is enabled, all other PLC commands are disabled.

No Operation

- Command: 253, 0x0FD
- Parameter: Scale number
- Command 253 provides a command to use between operations, as necessary, without causing the indicator to perform any action. Indicator status and weight for the specified scale is returned.

Reset Indicator

- Command: 254, 0x0FE
- Parameter: None
- Command 254 provides a command to remotely reset the indicator. No data is

returned.

- Return Status and Current Weight as Float
- Command: 256, 0x100
- Parameter: Scale number
- Command 256 returns the status and weight of the specified scale in floating-point format, without changing the display. This command also causes the format-independent commands to return a value in
- the floating-point format. Returns current weight at a floating-point format.

Enter Tare as Float

- Command: 268, 0x10C
- Parameter: Scale number
- Value: Tare weight
- Command 268 enters a tare for the scale selected in floating-point format. The indicator returns the tare weight as taken, or 0 for no tare.

Read Gross Weight as Float

- Command: 288, 0x120
- Parameter: Scale number
- Command 288 returns the gross weight value for the specified scale in floating-point format.

Read Net Weight as Float

- Command: 289, 0x121
- Parameter: Scale number
- Command 289 returns the net weight value for the specified scale in floating-point format.

Read Tare as Float

- Command: 290, 0x122
- Parameter: Scale number

- Command 290 returns the tare weight value for the specified scale in floating-point format.

Read Current Display as Float

- Command: 293, 0x125
- Parameter: Scale number
- Command 293 returns the weight value for the specified scale as currently displayed in floating-point format. This may include gross, net, tare, or accumulator values, as enabled. The weight value is returned in the mode used to display a scale widget.

Read Accumulator as Float

- Command: 294, 0x126
- Parameter: Scale number
- Command 294 returns the accumulator value for the specified scale in floating-point format. Batch status is returned in place of the indicator status.
- Read Rate of Change as Float
- Command: 295, 0x127
- Parameter: Scale number
- Command 295 returns the current rate of change value for the specified scale in floating-point format. This command is valid only for the 1280.

Set Setpoint Value as Float

- Command: 304, 0x130
- Parameter: Setpoint number
- Value: Setpoint value
- Command 304 sets the setpoint value for the specified setpoint in floating-point format. This command is valid only when the setpoint is configured and requires a setpoint value. Batch status is returned in place of the indicator status.

Set Setpoint Hysteresis as Float

- Command: 305, 0x131

- Parameter: Setpoint number
- Value: Hysteresis value
- Command 305 sets the hysteresis value for the specified setpoint in floating-point format. This command is valid only when the setpoint is configured and requires a hysteresis value. Batch status is returned in place of the indicator status.

Set Setpoint Bandwidth as Float

- Command: 306, 0x132
- Parameter: Setpoint number
- Value: Bandwidth value
- Command 306 sets the bandwidth value for the specified setpoint in floating-point format. This command is valid only when the setpoint is configured and requires a bandwidth value. Batch status is returned in place of the indicator status.

Set Setpoint Preact as Float

- Command: 307, 0x133
- Parameter: Setpoint number
- Value: Preact value
- Command 307 sets the preact value for the specified setpoint in floating-point format.
- This command is valid only when the setpoint is configured and requires a preact value. Batch status is returned in place of the indicator status.

Read Setpoint Value as Float

- Command: 320, 0x140
- Parameter: Setpoint number
- Command 320 returns the target value for the specified setpoint in floating-point format. This command is valid only when the setpoint is configured and requires a target value. Batch status is returned in place of the indicator status.

Read Setpoint Hysteresis as Float

- Command: 321, 0x141

- Parameter: Setpoint number
- Command 321 returns the hysteresis value for the specified setpoint in floating-point format. This command is valid only when the setpoint is configured and requires a hysteresis value. Batch status is returned in place of the indicator status.

Read Setpoint Bandwidth as Float

- Command: 322, 0x142
- Parameter: Setpoint number
- Command 322 returns the bandwidth value for the specified setpoint in floating-point format. This command is valid only when the setpoint is configured and requires a bandwidth value. Batch status is returned in place of the indicator status.

Read Setpoint Preact as Float

- Command: 323, 0x143
- Parameter: Setpoint number
- Command 323 returns the preact value for the specified setpoint in floating-point format. This command is valid only when the setpoint is configured and requires a preact value. Batch status is returned in place of the indicator status.

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FAQs

Q: Can the Modbus TCP Interface be used with any PLC or primary controller?

A: Yes, the Modbus TCP Interface can be used with most PLCs or primary controllers that support the Modbus communication protocol.

Q: Is it necessary to use a NEMA Type 4X stainless steel enclosure for the indicator?

A: It is recommended to use a NEMA Type 4X stainless steel enclosure, especially in washdown environments, to ensure the longevity and protection of the indicator and the

Documents / Resources

	RICE LAKE 1280 Indicator Programmable Weight Indicator and Controller [pdf] Installation Guide 156782, 1280 Indicator Programmable Weight Indicator and Controller, Indicator Programmable Weight Indicator and Controller, Programmable Weight Indicator and Controller, Weight Indicator and Controller, Indicator and Controller, Controller
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References

- [User Manual](#)

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1280 Indicator Programmable Weight Indicator and Controller, 156782, controller, Indicator and Controller, Indicator Programmable Weight Indicator and Controller, Programmable Weight Indicator and Controller, RICE LAKE, Weight Indicator and Controller

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