480/482 Legend® Series Digital Weight Indicator

Standard Features

- LED display (480)
- LCD backlit display (482)
- Time and date, battery backed
- Local/remote operation
- Numeric keypad (480 Plus/482 Plus)
- Keyed entries for setpoint values (480 Plus/482 Plus)
- Two independent serial ports
- NEMA Type 4X/IP66 stainless steel washdown enclosure
- Programmable ticket formats for gross, net, accumulator and setpoints
- Five continuous stream formats
- Adapter filter or rolling average filter
- Operator functions through menu for audit trail, preset tare, unit ID, accumulator, time and date, setpoints, communications and print formats
- Eight setpoints, sequenced batch engine
- Configurable with Revolution® software

Approvals

NTEP

Measurement
Canada
Approved

NOM

OIML

CE

UKCA

c(UL)us LISTED

WARNING:
Cancer and
Reproductive
Harm
California
Proposition
65

480/482 Digital Weight Indicator: Value and Performance Redefined

With NEMA Type 4X, stainless steel enclosure and advanced gasket system, the industrial-strength Legend Series is built for dirty, wet environments and demanding workplaces, inside or out. Choose between large, ultra-bright LED or LCD 0.8-inch displays with 6-digits and sharp contrast for superior display visibility.

Advanced circuitry withstands electrical noise, power disturbances and transient spikes that are common to industrial applications. The Legend Series' six-button tactile keypad allows for quick navigation and programming. The Legend Plus Series offers a full numeric keypad.

The Legend Series offers a valuable solution for a variety of applications, from basic weighing to batching. Built-in gross/net modes provide quick flexibility for everyday needs. Also utilize the 480's custom ticket printing to modify gross, net and setpoint tokens for a tailored print format.

480/482 Specifications

Power:
Line voltages: 100 to 240 VAC
Frequency: 50/60 Hz

Power Consumption:
8 W

Excitation Voltage:
5 VDC, 8 × 350 ohm or 16 × 700 ohm load cells

Analog Signal Input Range:
±7 mV/V

Analog Signal Sensitivity:
0.1 µV/graduation minimum,
0. 5 µV/graduation recommended

A/D Sample Rate:
5, 10, 20, 40 Hz, software selectable

Resolution:
Internal: 523,000 counts
Display: 100,000

System Linearity:
Within 0.01% of full scale

Digital I/O:
Optional 2 or 4 inputs
4 or 8 dry-contact relays

Communication Ports:
Com 1: RS-232 full duplex
Com 2: RS-232 full duplex or 20 mA simplex, continuous
Both ports 1200, 2400, 4800, 9600, 19200, 38400 baud seven or eight data bits, even, odd or no parity

(Optional) Analog Output:
16-bit resolution, voltage output 0-10 VDC, current output 0-20 mA / 4-20 mA

(Optional) Relay Board:
Two opto-isolated, 5 to 24 VDC, active high inputs
Primary keys, pseudo functions, batching functions
(4) 30 VDC, 2 amp dry-contract relays

Annunciators:
Gross, net, center of zero, standstill, lb, kg, tare, preset tare

Display:
480/480 Plus: LED display
0.8 in (20 mm), six-digit, seven-segment
482/482 Plus: LCD backlit display, transmissive/transflective
0.8 in (20 mm), six-digit, seven-segment

Keys/Buttons:
Flat membrane panel, embossed keys, tactile feel

Temperature:
Certified: 14 °F to 104 °F (-10 °C to 40 °C)
Operating: 14 °F to 122 °F (-10 °C to 50 °C)

Rating/Material:
NEMA Type 4X/IP66
Stainless steel

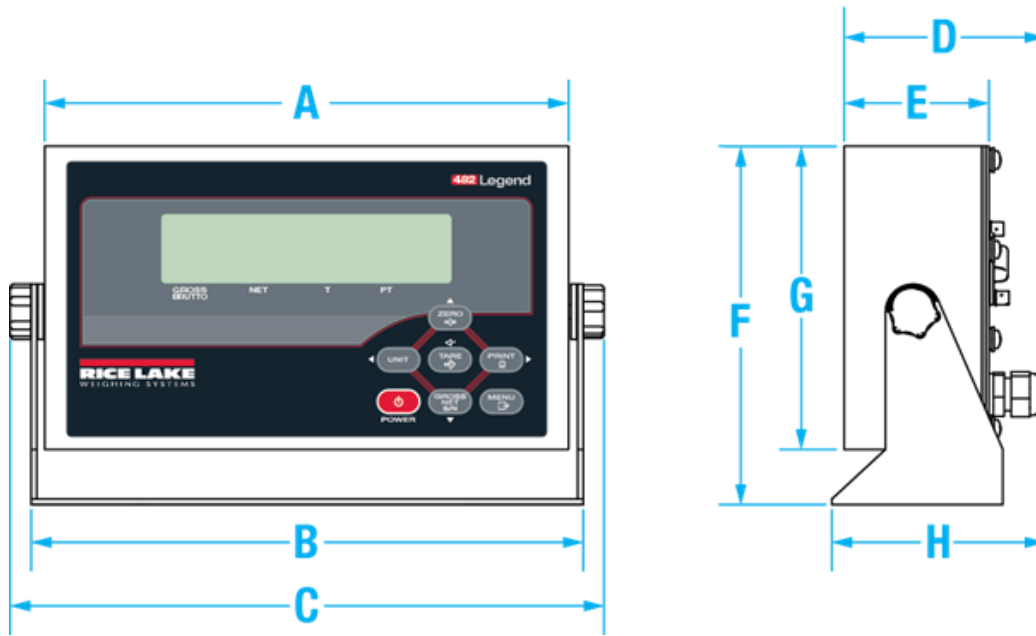**Weight:**
6.4 lb (2.9 kg)

Warranty:
Two-year limited

EMC Immunity:
EN 50082 Part 2 IEC EN 61000-4-2, 3, 4, 5, 6, 8, and 11

Approvals:
NTEP 12-123, Class III/IIIL, 10,000d
Measurement Canada AM-5892C
OIML R76/2006-NL1-15.24
EU Test Certificate TC8322
CE Marked
cULus
UKCA

480/482 Dimensions

Dimensions								
A	9.50 in (241 mm)		D	3.65 in (92 mm)		G	6.00 in (152 mm)	
B	10.00 in (254 mm)		E	2.75 in (70 mm)		H	3.75 in (95 mm)	
C	11.00 in (279 mm)		F	7.00 in (178 mm)				

Parts

Part #	Description

480 Legend Series 115 VAC

126564	Indicator,480 Legend LED Display,115VAC NEMA 5-15 Plug, Stainless Steel Enclosure
130338	Indicator,480 Legend LED Display, 115VAC NEMA 5-15 Plug, Stainless Steel Enclosure with Analog Output 0-10VDC, 4-20ma.

480 Legend Series 90 to 264 VAC

126565	Indicator,480 Legend LED Display, 90-264VAC with Euro Plug, Stainless Steel Enclosure
130339	Indicator,480 Legend LED Display, 90-264VAC with Euro Plug, Stainless Steel Enclosure, With Analog Output 0-10VDC, 4-20ma

480 Plus Legend Series 115 VAC

164588	Indicator,480 Plus Legend LED Display, Numeric Keypad, 115VAC NEMA 5-15 Plug Stainless Steel Enclosure
164589	Indicator,480 Plus Legend LED Display, Numeric Keypad, 115VAC NEMA 5-15 Plug with Analog Output 0-10VDC, 4-20ma. Stainless Steel Enclosure
164590	Indicator,480 Plus Legend LED Display, Numeric Keypad, 115VAC NEMA 5-15 Plug, Digital I/O and Relay Output. Stainless Steel Enclosure.

480 Plus Legend Series 90 to 264 VAC

164591	Indicator,480 Plus Legend LED Display, Numeric Keypad, 90-264VAC CEE 7/7 Plug Stainless Steel Enclosure
164592	Indicator,480 Plus Legend LED Display, Numeric Keypad, 90-264VAC CEE 7/7 Plug with Analog Output 0-10VDC, 4-20ma. Stainless Steel Enclosure
164593	Indicator,480 Plus Legend LED Display, Numeric Keypad, 90-264VAC CEE 7/7 Plug Digital I/O and Relay Output. Stainless Steel Enclosure.

482 Legend Series 115 VAC

164581	Indicator,482 Legend LCD Display, 115VAC NEMA 5-15 Plug, Stainless Steel Enclosure

482 Legend Series 90-264 VAC

164672	Indicator,482 Legend LCD Display, 90-264VAC CEE 7/7 Plug, Stainless Steel Enclosure

482 Plus Legend Series 115 VAC

164584	Indicator,482 Plus Legend LCD Display, Numeric Keypad, 115VAC NEMA 5-15 Plug, Stainless Steel Enclosure

482 Plus Legend Series 90-264 VAC

164673	Indicator,482 Plus Legend LCD Display, Numeric Keypad, 90-264VAC 7/7 Plug Stainless Steel Enclosure

Options

Part #	Description
131340	Bracket,Mounting Assy for Option Modules in 480 Indicator
131341	Ind OPT, Analog Output 480, 0-10VDC, 4-20Ma
131342	Ind OPT, Relay 480 2 Digital Inputs, 4 Dry contact relays
165379	Cable,480 Flash Update Connects into J14 via RS232.
151100	Ind Opt,A/D Sealing Kit Cover for A/D on 480 Indicator
151099	Panel,Mount Option 480/680 Indicator,Gasketed Non-NEMA Seal.
83564	Overlay,Clear Protective Window with Adhesive Edge, Package of Five Each, IQ+355, 320IS, 420, CW90
223864	Knob, Star M6x1.0 304 SST
119201	LIT,Manual 480 Technical 480 Legend Series Technical Manual
165124	LIT,Manual 482 Technical 482 Legend Series Technical Manual

Primary Replacement Components

Part #	Description
131345	Overlay, 480 Keypad 6-key For LED window
159612	Overlay, 480 Plus LED Numeric keypad
131346	Display Board,480 LED 7 Segment
161048	Overlay, 482 keypad 6-key Window for LCD Display
161049	Overlay, 482 Plus LCD Numeric Keypad
153776	Display Board,482 LCD 7 Segment Display With BackLight
131316	Power Supply, Switching 85-265VAC Input, 6VDC Output, 480 indicator
131318	Board ASSY,CPU 480 482
131319	Board,A/D ASSY 480

Replacement Parts

Part #   **Description**

Backplate

164650	Ind Opt,Battery Kit For 480/ 482. Includes Battery, Holder, Charger Board, Cable
131322	Battery Bracket ASSY, 480
131323	Battery, 480 Lithium Rechargeable Battery
131321	Backplate, 480 Back Plane Base 304
14626	Nut,Kep 8-32NC HEX External Tooth Lockwasher Steel Zinc Plated Width Across Flats= 11/32 Thickness=5/32. 8-32
14831	Screw,MACH 4-40NCx5/16 Phillips Pan Head Internal Tooth Lock Washer SEMS Steel Zinc Plated
131333	Ground Clamp, 480
164580	Clamp,Ground Cable Shield Dia 0.25 used for 6 conductor cable.
131334	Ground Wire, 480 Insulated
131340	Bracket,Mounting Assy for Option Modules in 480 Indicator
131341	Ind OPT, Analog Output 480, 0-10VDC, 4-20Ma
131342	Ind OPT, Relay 480 2 Digital Inputs, 4 Dry contact relays
164600	Ind OPT,480 USB/Ethernet USB and Ethernet TCP/IP Kit.
22085	Screw,Machine 4-40NCx3/16 Phillips Pan Head Steel Zinc Plated
131345	Overlay, 480 Keypad 6-key For LED window
159612	Overlay, 480 Plus LED Numeric keypad
161048	Overlay, 482 keypad 6-key Window for LCD Display
161049	Overlay, 482 Plus LCD Numeric Keypad
131346	Display Board,480 LED 7 Segment
153776	Display Board,482 LCD 7 Segment Display With BackLight
131316	Power Supply, Switching 85-265VAC Input, 6VDC Output, 480 indicator
131339	Cover, 480 Power Supply Safety Cover
131317	Board, Battery Charging VDC to VDC, 480 482
131318	Board ASSY,CPU 480 482
131319	Board,A/D ASSY 480
131324	Screw,4-40 Drilled Fillister Head 304SS
131325	Screw,8-32 x 1/4 Drilled Fillister Head, 304SS
131335	O-ring, 480

Part #	Description
15626	Cord Grip,PG9 Black Clamping Range .138 - .315 Nut: 15627. Torque at 3.75Nm (33.19 inch lbs.)
30375	Seal Ring,Nylon PG9 .59 ID X .75 OD X .08
193559	Screw,6-32 x 13mm Drilled fillister set up tamper screw, 480 and 482 indicator
131344	Gasket, 480 Back Plate
75062	Washer,Bonded Sealing #8 7/16 (.4375) OD SST
164912	Tilt Stand, 480 and 482
164577	Knob & Washer Kit for 480 Black, Round Lobe Grip, M6 with Internal Thread Includes Two Knobs, and Nylon Washers
164604	Ind OPT,Ethernet Cable with Cord Grip, RJ45 Connector, 6 foot Length
167707	Ind OPT,480 USB Cable with Cord Grip, Type A Male Connector, 200 CM Length
167708	Ind OPT,480 USB Cable with Cord Grip, Type B Male Connector, 200 CM Length
164602	Ind OPT,480 USB Cable with Cord Grip, Type A Female Connector, 6 inch (20cm) Length
88733	Vent,Breather Sealed Goretex Membrane in black molded plastic chassis Gore IP69K rated
88734	Nut,Breather Vent molded plastic for PN-88733
103462	CONN,2 Pos Screwterminal Pluggable 3.81 Center for 16-28AWG wire
76513	CONN,4 Pos Screw Terminal Pluggable 3.81mm Center 30 - 14 AWG .276 Strip Length Screw Torque 1.95 LB/IN Minimum - 2.213 LB/IN Maximum
76514	CONN,6 Pos Screw Terminal Pluggable 3.81mm Centers Phoenix 1803617 or Equivalent, 16-28AWG Strip length = .28
157223	CONN,15 Pos ScrewTerminal Pluggable 3.81mm Centers Phoenix 28-16 AWG Strip length = .28
155230	Cable ASSY,Ribbon Right Angle 20 Pin Female Connector Each End 480 CPU to Display board
155231	Cable ASSY,Ribbon Right Angle 14 Pin Female Connector Each End 480 CPU to A/D board
155232	Cable ASSY,Ribbon Right Angle 10 Pin Female Connector Each End 480 Power Supply to CPU board
155233	Cable ASSY,Ribbon Right Angle 16 Pin Female Connector Each End 480 CPU to Option boards.
155234	Power Cord ASSY,120VAC with connector for 480 and 482
131314	Parts Kit,480 Assy
164579	Cover, A/D Sealing 480 Covers Load Cell Connector & A/D Board
19538	Plug,Post, Slotted, DIA = 1/4IN, Shank = 1/2 - 1IN, Plastic, Seals Inside Cord Grip

Components of Part# 131314

94422	Label,Capacity .40 X 5.00
53374	Label, Annunciators Black background w/white lettering oz g t TN lb kg
14862	Screw,Machine 8-32NC x 3/8 Phillips Pan Head Fully Threaded 18-8 SST
45042	Washer,Bonded Sealing #8 3/8 (.375) OD SST
76514	CONN,6 Pos Screw Terminal Pluggable 3.81mm Centers Phoenix 1803617 or Equivalent, 16-28AWG Strip length = .28

Part #	Description
103462	CONN,2 Pos Screwterminal Pluggable 3.81 Center for 16-28AWG wire
131320	Screw,8-32 X 1/2 Drilled Fillister Head, 304SS