480/482 Legend® Series Digital Weight Indicator

RICE LAKE®
WEIGHING SYSTEMS
www.ricelake.com

As of: Thursday, February 29, 2024

Standard Features

- LED display (480)
- LCD backlit display (482)
- Time and date, battery backed

Approvals

- 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

Measurement
Canada
Approved

NOM   NYCE

OIML

CE

UK
CA

c UL us
LISTED

⚠ WARNING:
Cancer and
Reproductive
Harm California
Proposition 65

Defining Value and Performance

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
DC voltages: n/a

Power consumption:
8 W

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

Analog Signal Input Range:
±7mV/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 Range:
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
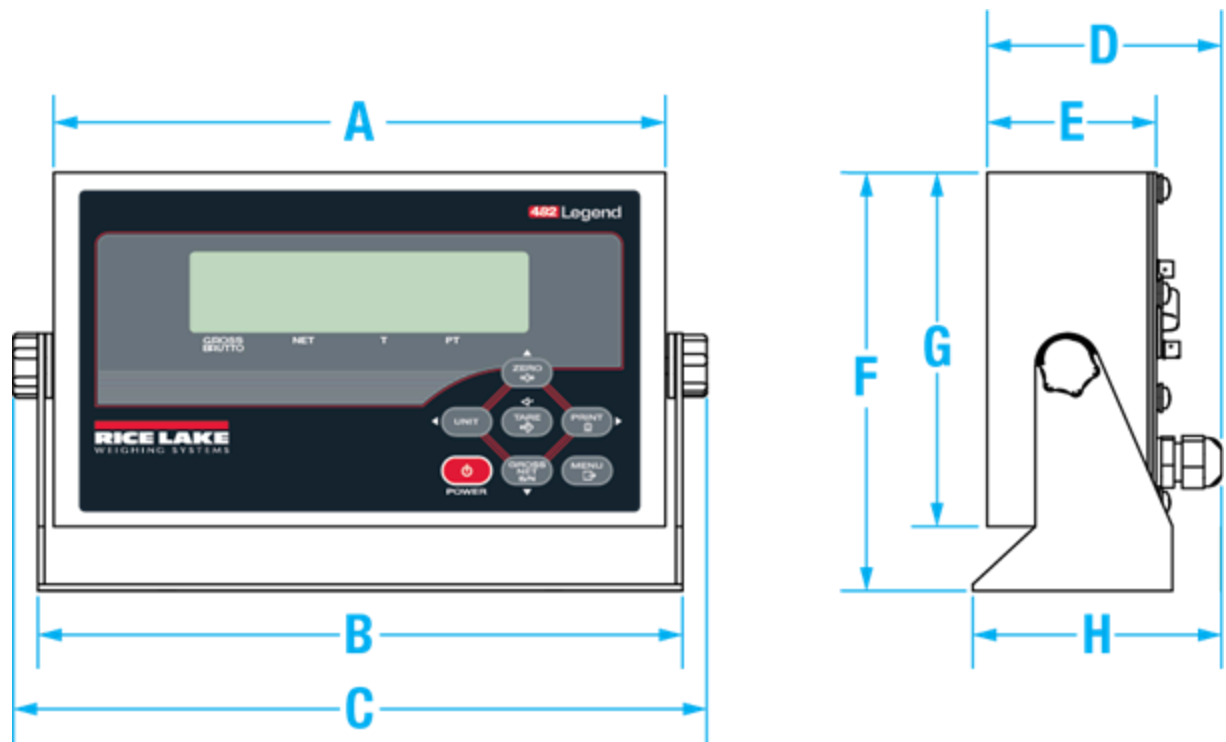Measurement Canada AM-5892C
OIML R76/2006-NL1-15.24
EU Test Certificate TC8322
CE Marked
cULus
UKCA

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

Part #	Description
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
119201	LIT,Manual 480 Technical 480 Legend Series Technical Manual
165124	LIT,Manual 482 Technical 482 Legend Series Technical Manual

Primary Replacement Components

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

Part #	Description
131318	Board ASSY,CPU 480
131319	Board,A/D ASSY 480

An ISO 9001 Registered Company ©2023 Rice Lake Weighing Systems