**Improved Fiber Optic Distance** 2nd Fiber Port





#### **Approvals**

















\*UL is only applicable to 882IS I/O and hattery charger

#### **Standard Features**

- Two fiber optic ports with communication up to 500 ft
- · LCD display with white LED backlight
- T4 temperature rating
- Battery life display icon
- Numeric keupad (882IS Plus)
- · Dual duplex fiber-optic interface
- · Power ON/OFF; battery save mode
- Configurable local/remote mode
- I/O module option: one serial port, optional analog output, optional fieldbus cards, Ethernet TCP/IP
- · Time and date (requires I/O module)
- Setpoint functionality using secondary 920i® indicator
- FM Entity Approved for use in hazardous locations per Rice Lake Weighing Systems control drawing file number 221416

Rice Lake Weighing Systems warrants that all Rice Lake Weighing Systems intrinsically safe (IS) equipment and systems installed by a qualified electrician will operate per written specifications as confirmed by the distributor/OEM and accepted by. All systems and components are warranted against defects in materials and workmanship for one year. All Rice Lake intrinsically safe equipment carries a Factory Mutual approval and is documented on various control drawings. Each device is manufactured by Rice Lake factory authorized personnel. To preserve the warranty and Factory Mutual approval, all repairs or replacement of circuit boards or components housed within the enclosures must be performed by Rice Lake factory authorized personnel.

A CAUTION! The equipment contained within this Explosive Environment section requires greater attention to specification and installation guidelines. Improper specification, installation or service of these products can result in loss of equipment or serious injury.

### **Specifications**

#### Power:

Input: 5.8 to 7.9 VDC, 100 to 175 mA

#### **Power Consumption:**

#### Battery (optional):

60 hours with  $4 \times 350$  ohm load cells 80 to 100 hours with  $1 \times 350$  ohm load cell

8 to 10 hour charging time **Load Cell Excitation:** 

3.0 VDC at 87.5 ohm, 4.6 VDC at 700 ohm

# **Load Cell Current:**

34 mA  $4 \times 350$  ohm load cells or  $8 \times 700$  ohm load cells

#### Load Cell Cabling:

Four- and six- wire with remote sensing (recommended)

# **Analog Signal Input Range:**

-0.5 mV/V to 4.0 mV/V

# **Analog Signal Sensitivity:**

0.2 µV/graduation minimum 1.5 µV/graduation recommended

#### Resolution:

Internal: 1,000,000 counts

Display: 10,000

The maximum number of allowed graduations will

#### vary by application **Conversion Rate:**

60 undates/second

#### **Annunciators:**

Center of zero, gross, net, motion, lb, kg, oz, g

#### **Motion Band:**

Configurable to  $\pm 1$  or  $\pm 3$  graduations,

1 second delay (or Off) **Display Increments:** 

#### 1, 2, 5

#### Display:

Seven-digit, seven-segment LCD display 121 × 24 dot matrix messaging area with white LED backlight

#### Keys/Buttons:

Flat membrane panel, tactile feel

882IS: Zero, Gross/Net, Tare, Print, Units Conv,

Start, Stop

882IS Plus: Zero, Gross/Net, Tare, Print, Units Conv.

Start, Stop, full numeric keypad

## **Optical Ports:**

Physical Medium: 2.2 plastic fiber @ 640 nm Max Transmission Length: 500 ft (152 m)

Transmission Type: Full duplex

#### Temperature:

Operating: 14 °F to 104 °F (-10 °C to 40 °C)

#### Rating/Material:

IP66 enclosure

Stainless steel Weight:

### 6.1 lb (2.8 kg)

Warranty:

#### One-year limited Intrinsic Safety:

FM/cFMus

Class I. II. III. Division 1. Groups ABCDEFG T4 Class I, Zone O AEx/Ex ia IIC T4 Ga

Zone 21 AEx/Ex ib IIIC T135°C Db

 $Ta = -10 \, ^{\circ}C \text{ to } 40 \, ^{\circ}C \, (14 \, ^{\circ}F \text{ to } 104 \, ^{\circ}F)$ 

ATEX/IECEx II 1 G Ex ia IIC T4 Ga

II 2 D Ex ib IIIC T135°C Db

#### Approvals:

NTEP 19-015

Measurement Canada AM-6124C OIML R76/2006-A-NL1-21.11 EU Type Eval Certificate T11166

CE Listed

UKCA

cULus Listed\* cFMus Approved EX-ATEX

**IFCFx** 

\*cULus is only applicable to 882IS I/O and battery charger

# 882IS/882IS Plus

Intrinsically Safe Digital Weight Indicator

#### Part Number/Price

Part #	Description	Price
882IS		
195091	882IS 7.5 VDC with standard tilt stand	Consult
185288 <sup>†</sup>	882IS with battery and charger (North American plug)	Consult
194231#	882IS with battery and charger (EU plug)	Consult
194232 <sup>†††</sup>	882IS with battery and charger (UK plug)	Consult
196273††††	882IS with battery and charger (AU plug)	Consult
185290	882IS with power supply with 10 ft cable	Consult
194235	882IS indicator with power supply and metric thread adapter	
882IS Plus		
195092	882IS Plus 7.5 VDC with standard tilt stand	Consult
185291 <sup>†</sup>	882IS Plus with battery and charger (North American plug)	Consult
194233#	882IS Plus with battery and charger (EU plug)	
194234 <sup>†††</sup>	882IS Plus with battery and charger (UK plug)	
196274###	882IS Plus with battery and charger (AU plug)	Consult
185293	882IS Plus with power supply	Consult
194236	882IS Plus indicator with power supply and metric thread adapter	Consult

# **Parts/Accessories**

Part #	Description	Price
180831	Battery option, IS6V2	Consult
194191 <sup>†</sup>	Battery charger, IS6V2, 100-240 VAC NEMA 5-15 (North American plug)	Consult
194189#	Battery charger, IS6V2 100-240 VAC (EU plug)	Consult
194192##	Battery charger, IS6V2 100-240 VAC (UK plug)	Consult
197591###	Battery charger, IS6V2 100-240 VAC (Australian plug)	Consult
180837	Power supply, 882IS mb-EPS-100-240-X2, dual output 6.8 VDC 200 mA	Consult
195109	Power supply, 882IS mb-EPS-100-240-X2, dual output 6.8 VDC 200 mA, 1/2 in NPT-M20	Consult
179668	Cable, M12 power 22 in hazardous location (for battery version)	Consult
179669	Cable, M12 power 10 ft hazardous location	Consult
179670	Cable, M12 power 50 ft hazardous location	Consult
179671	Cable, M12 power 100 ft hazardous location	
190979	Lockout device for M12 cable	Consult
163751	Tilt stand, 882IS	Consult
179678	Tilt stand, 882IS battery option	Consult
177850	Panel mount option, gasketed non-NEMA seal	Consult
206735	Battery tester, 882IS	Consult
223864	Knob. Stainless Steel M6 x 1.0 inch	Consult



† US plug (NA) - Type B



tt Euro Plug - Type E



ttt BS1363 (UK) - Type G



Non-classified Area **Classified Area** tttt AS 3112 (Australian) - Type I Local ••••• Fieldbus Load Cell Input Fiber-Optic 2 Fiber-Optic 1 I/O Module Junction AC Power Supply (Intrinsically Safe Output) Entity Approved (optional) VDC 115/250 VAC Load Cells \_Battery Charger Battery

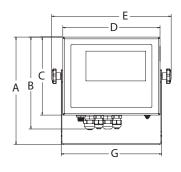


PN 206735 Battery Tester

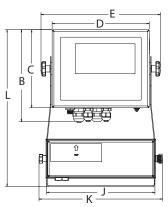
Control drawing part numbers: 221416, 186430, 182301 and archived drawing 180948, are available at www.ricelake.com

# **Dimensions**

882IS/882IS Plus				
Without Battery				
Α	8.94 in (227 mm)	E	9.96 in (253 mm)	
В	7.66 in (195 mm)	F	4.36 in (111 mm)	
С	6.50 in (165 mm)	G	8.37 in (213 mm)	
D	8.10 in (206 mm)			
With Optional Battery and Tilt Stand				
Н	4.64 in (118 mm)	K	10.29 in (261 mm)	
1	5.00 in (127 mm)	L	13.06 in (332 mm)	
J	9.03 in (229 mm)			

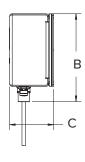


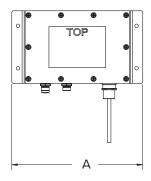






882IS/882IS Plus				
Optio	nal Power Supply			
Α	9.25 in (235 mm)	С	3.11 in (79 mm)	
В	6.20 in (158 mm)			





# 882IS/882IS Plus

Intrinsically Safe Digital Weight Indicator

# **Options/Accessories**

Part #	Description	Price
Optional Safe Ar	ea Modules	
177709	Module, 882 Smart I/O Ethernet fiber optic interface	Consult
196166	Module, 882 Smart I/O (EU power cord)	Consult
196769	Converter, fiber optic to RS-232 , $6 \times 6$ inch FRP enclosure, external power supply included	Consult
196770	Converter, fiber optic to RS-422, 6 × 6 inch FRP enclosure, external power supply included	Consult
78026	Cable, plastic optical 100 ft. includes polishing kit	Consult
78027	Cable, plastic optical 200 ft. includes polishing kit	Consult
197384	Kit, polishing POF cable includes 197381 films and 197383 puck	
Option Cards		
190528	Single analog output (0-10 VDC, 0-20 mA, 4-20 mA)	Consult
190530	EtherNet/IP™ CompactCom	Consult
190531	DeviceNet® CompactCom	
190532	PROFINET CompactCom	
190534	PROFIBUS® DP CompactCom	
190533	Modbus TCP CompactCom	Consult
190535	EtherCAT® CompactCom	Consult
Remote Indicato	for Setpoint Functionality	
203343	920i universal indicator, 115 VAC, no A/D, with 882IS iRite software for setpoints	Consult
203344	920i wall mount indicator, 115 VAC, no A/D, with 882IS iRite software for setpoints - requires fiber convertor (PN 196769 or PN 196770)	Consult

# **Dimensions**

882IS/882IS Plus				
Optional I/O Module				
Α	10.00 in (254 mm)	С	6.91 in (176 mm)	
В	9.13 in (232 mm)	D	4.00 in (102 mm)	

