

# 682 Synergy Series

Digital Weight Indicator



INDICATORS /  
CONTROLLERS

## Approvals



Measurement  
Canada  
Approved



## Standard Features

- Graphical, LCD color display with configurable softkeys
- Numeric, tactile keypad for scale operations, numeric entry and navigation
- Multi-language operation and text entry
- Formattable tickets
- Battery backed time and date
- Multiple communication ports
- Eight setpoints, 22 configurable types
- Fieldbus communication using Rice Lake's SCT-2200 modules and RS-485 port
- Built-in web server for remote access, systems integration and data monitoring
- Built-in Truck In/Out application
- Four onboard configurable digital I/O points, TTL logic
- Local/remote
- Multi-range/interval

## Options

- Analog output: 16-bit resolution, 0-10 VDC, 0-20 mA, 4-20 mA
- Relay card
- Dual serial card
- RJ45 Ethernet connector

*Note: IP Rating is IP66 with RJ45 option. Rating is valid only when the cover is in place, not in use.*

## Specifications

### Power:

Line voltage: 100 to 240 VAC, 50/60Hz  
Optional: 9 to 36 VDC

### Power Consumption:

3.2W (AC) 1 × 350 ohm load cell, 15W max;  
4W 4 × 350 ohm load cells or  
8 × 700 ohm load cells

### Excitation Voltage:

10 VDC (± 5 VDC), 8 × 350 ohm or  
16 × 700 ohm load cells

### Analog Signal Input Range:

-5 mV to +70 mV

### Analog Signal Sensitivity:

0.3 μV/graduation minimum  
1 μV/graduation recommended

### A/D Sample Rate:

6.25 to 120 Hz, software selectable

### Resolution:

Internal: 8,000,000 counts  
Display: 1,000,000

### System Linearity:

Within 0.01% full scale

### Digital I/O:

Four configurable I/O, 5V logic

### (Optional) Analog Output:

16-bit resolution, voltage output 0-10 VDC, current output 0-20 mA / 4-20 mA

### (Optional) Relay Board:

4 normally open dry contact relays and can switch 20-250 VAC @ 3A or 30 VDC @ 3A. Use of external fusing to limit current is recommended. Relay COM-NO are transient protected to 400V @ 600W

### Communication Ports:

Two full-duplex RS-232  
RS-485/422 (two-wire or four-wire)  
Micro USB (device)  
Ethernet TCP/IP (10/100)  
Wi-Fi  
Bluetooth®

### Annunciators:

Zero, Gross/Net, Tare, Wi-Fi, Bluetooth®

### Display:

Five-inch LCD, 800 × 480 pixel, 500 NIT

### Keys/Buttons:

Flat membrane panel, tactile feel  
18 buttons plus 5 softkeys and power

### Dimensions:

(L x W x H)  
10.0 x 4.0 x 8.6 in  
(254 x 102 x 218 mm)

### Temperature Range:

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

### Rating/Material:

IP69K (IP66 with RJ45 option)  
AISI 304 Stainless Steel

### Weight:

6.25 lb (2.84 kg)

### Warranty:

Two-year limited

### Approvals:

NTEP CC 19-021, Class III/III.L, 10,000d  
Measurement Canada AM-6121C  
OIML R76 2006 A NL1 19.56R3  
EU Test Certificate TC11562  
CE Marked  
UKCA  
cULus

# 682 Synergy Series

Digital Weight Indicator

## Part Number/Price

Part #	Description	Est. Weight	Price
<b>115-230 VAC</b>			
193155†	682 Plus indicator, LCD display, US power cord	7 lb	Consult
193156††	682 Plus indicator, LCD display, EU power cord	7 lb	Consult
207348†††	682 Plus indicator, LCD display, UK power cord	7 lb	Consult
207349††††	682 Plus indicator, LCD display, AU power cord	7 lb	Consult
<b>9-36 VDC</b>			
193157	682 Plus indicator, LCD display	7 lb	Consult
<b>With External RJ45 Connector*</b>			
207354†	682 Plus indicator, LCD display, 115-230 VAC with RJ45, US power cord	7 lb	Consult
207355††	682 Plus indicator, LCD display, 115-230 VAC with RJ45, EU power cord	7 lb	Consult
207356†††	682 Plus indicator, LCD display, 115-230 VAC with RJ45, UK power cord	7 lb	Consult
207357††††	682 Plus indicator, LCD display, 115-230 VAC with RJ45, AU power cord	7 lb	Consult

\*IP rating is IP66 with RJ45 option



† US plug (NA) - Type B



†† Euro Plug - Type E



††† BS1363 (UK) - Type G



†††† AS 3112 (Australian) - Type I

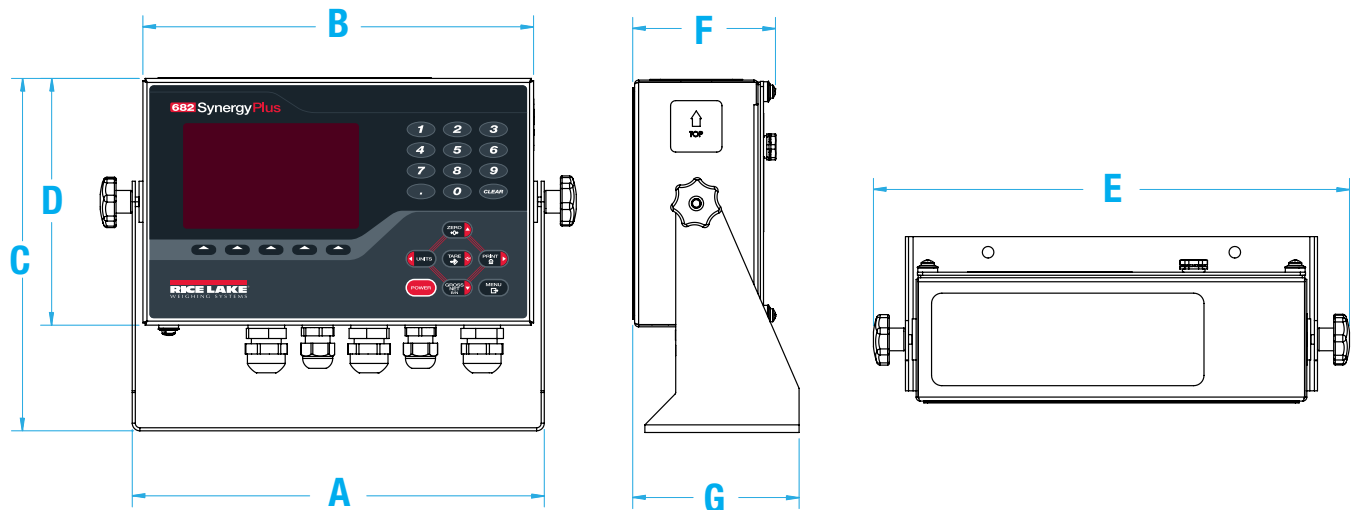
## Options/Accessories

Part #	Description	Price
195084	Analog output	Consult
211709	Relay board	Consult
211710	Serial output	Consult
151099	Panel Mount	Consult
211701	Replacement CPU	Consult
194477	Parts kit	Consult

Note: Reference SCT-2200 (page 541) for Fieldbus part numbers

## Dimensions

682 Synergy Series			
A	10.0 in (254 mm)	E	11.6 in (295 mm)
B	9.5 in (241 mm)	F	3.5 in (89 mm)
C	8.6 in (218 mm)	G	4.0 in (102 mm)
D	6.0 in (152 mm)		



INDICATORS / CONTROLLERS