

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, 50/60 Hz
Optional: 9 to 36 VDC

Power Consumption:

3.2 W (AC) 1 × 350 ohm load cell, 15 W max;
4 W 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, 5 V 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 @ 3 A or 30 VDC @ 3 A. Use of external fusing to limit current is recommended. Relay COM-NO are transient protected to 400 V @ 600 W

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:

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, 10,000 d
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 |
|--------------------------------------|--|-------------|---------|
| 115-230 VAC | | | |
| 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 |
| 9-36 VDC | | | |
| 193157 | 682 Plus indicator, LCD display | 7 lb | Consult |
| With External RJ45 Connector* | | | |
| 207354† | 682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, US power cord | 7 lb | Consult |
| 207355†† | 682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, EU power cord | 7 lb | Consult |
| 207356††† | 682 Plus indicator, LCD display, 115 to 230 VAC with RJ45, UK power cord | 7 lb | Consult |
| 207357†††† | 682 Plus indicator, LCD display, 115 to 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 |
| 223864 | Knob, stainless steel M6 x 1.0 inch | Consult |
| 194477 | Parts kit | Consult |
| Fieldbus | | |
| 182592 | Fieldbus, SCT-2200, Profinet module | Consult |
| 194343 | Fieldbus, SCT-2200, Ethernet TCP/IP and Wi-Fi | Consult |
| 182593 | Fieldbus, SCT-2200, Profibus module | Consult |
| 182591 | Fieldbus, SCT-2200, EtherNet/IP module | Consult |
| 182596 | Fieldbus, SCT-2200, DeviceNet module | Consult |
| 182598 | Fieldbus, SCT-2200, EtherCAT module | Consult |
| 182597 | Fieldbus, SCT-2200, CANopen module | Consult |
| 196694 | Fieldbus, SCT-2200, Modbus TCP module | Consult |
| 182599 | Cable with RJ45 plugs, 6 in length | Consult |
| 212772 | Fieldbus, SCT-2200, Profibus module | Consult |

Dimensions

| 682 Synergy Series | | | |
|--------------------|-------------------|---|-------------------|
| A | 10.00 in (254 mm) | E | 11.60 in (295 mm) |
| B | 9.50 in (241 mm) | F | 3.50 in (89 mm) |
| C | 8.60 in (218 mm) | G | 4.00 in (102 mm) |
| D | 6.00 in (152 mm) | | |

