# **682** Synergy Plus

DIGITAL WEIGHT INDICATOR



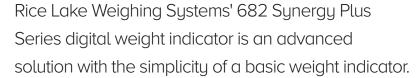




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DIGITAL WEIGHT INDICATOR



The durable 682 Synergy Series indicator is constructed with 304 stainless steel and has an IP69 ingress rating to stand up to high-pressure, hightemperature washdowns found in food processing and other environments.

The 682 indicator has a bright five-inch color LCD screen and configurable softkeys for an interface that is easy to use.

### Advanced Connectivity

The 682 indicator comes standard with advanced communications to take on a wide range of applications. Connections to external devices and networks are available through RS-232 and RS-485 serial ports, USB, Ethernet, fieldbus, Wi-Fi and Bluetooth®. This digital weight indicator also has a built-in web server for easy remote monitoring and process control.

## Truck Weighing

The 682 indicator has an integrated truck in/out mode specifically designed for vehicle scale applications. This mode stores the transaction after each weigh-out with truck ID, gross, tare and net weights. Transactions may be printed or cleared at any time.

#### 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
- 20 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
- Continuous/Demand Serial Scale Input
- · 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**

**EXCITATION VOLTAGE:** 

POWER: Line voltage: 100 to 240 VAC, 50/60 Hz

Optional: 9 to 36 VDC

POWER CONSUMPTION: 3.2 W (AC)  $1 \times 350 \text{ ohm load cell}$ , 15 W max;

4 W 4  $\times$  350 ohm load cells or 8  $\times$  700 ohm load cells 10 VDC ( $\pm$  5 VDC),  $8 \times 350$  ohm or  $16 \times 700$  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)

Bluetooth®

ANNUNCIATORS: Zero, Gross/Net, Tare, Wi-Fi, Bluetooth® DISPLAY: Five-inch LCD, 800 × 480 pixel, 500 NIT

KFYS/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

6.25 lb (2.84 kg) WARRANTY: Two-year limited

#### APPROVALS:













