# 682 SynergyPlus

## DIGITAL WEIGHT INDICATOR



# RICE LAKE®
## WEIGHING SYSTEMS

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**www.ricelake.com**

# 682 Synergy Plus

DIGITAL WEIGHT INDICATOR

Rice Lake Weighing Systems' 682 Synergy Plus Series digital weight indicator is an advanced solution with the simplicity of a basic 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, high-temperature 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 options
- 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
- Stainless steel IP69 enclosure
- Four onboard configurable digital I/O points, TTL logic
- Local/remote

### OPTIONS

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

## SPECIFICATIONS

| | |
|---|---|
| **POWER:** | Line Voltage: 100-240 VAC, 50-60Hz<br>Optional: 9-23 VDC |
| **POWER CONSUMPTION:** | ~3.2W (AC) with one 350 ohm load cell, 15W max;<br>4W with 4-350 ohm load cells, 8-700 ohm load cells |
| **EXCITATION VOLTAGE:** | 10 VDC (± 5 VDC), 8 x 350 ohm or 16 x 700 ohm load cells |
| **ANALOG SIGNAL INPUT RANGE:** | -5 mV to +70 mV |
| **ANALOG SIGNAL SENSITIVITY:** | 0.3 µV/graduation minimum<br>1 µV/graduation recommended |
| **A/D SAMPLE RATE:** | 6.25-120 Hz, software selectable |
| **RESOLUTION:** | Internal: 8,000,000<br>Display: 1,000,000 |
| **SYSTEM LINEARITY:** | Within 0.01% full scale |
| **DIGITAL I/O:** | Four configurable I/O, 5V logic |
| **COMMUNICATION PORTS:** | Two RS-232 (three-wire)<br>RS-485/422 (two-wire or four-wire)<br>Micro USB (device)<br>Ethernet TCP/IP (10/100)<br>Wi-Fi<br>Bluetooth® |
| **STATUS ANNUNCIATORS:** | Zero, Gross/Net, Tare, Wi-Fi, Bluetooth® |
| **DISPLAY:** | Five-inch LCD, 800 x 480 pixel, 500 NIT |
| **KEYS/BUTTONS:** | Flat membrane panel, tactile feel<br>18 buttons plus 5 softkeys and power |
| **TEMPERATURE RANGE:** | Legal: 14°F to 104°F (-10°C to 40°C)<br>Industrial: 14°F to 122°F (-10°C to 50°C) |
| **DIMENSIONS (W x H x D):** | 11.6 x 8.6 x 4.0 in (29.47 x 21.85 x 10.16 cm)<br>With RJ45: 11.6 x 8.6 x 4.5 in<br>(29.47 x 21.85 x 11.43 cm) |
| **WEIGHT:** | 6.25 lb (2.84 kg) |
| **RATING/MATERIAL:** | IP69 (IP66 with RJ45 option)<br>AISI 304 Stainless Steel |
| **WARRANTY:** | Two-year limited warranty |

## APPROVALS

NTEP · OIML · EU NAWI CERTIFIED *pending* · c UL us LISTED *pending* · CE · UKCA