

# SCT-40

SIGNAL CONDITIONING  
TRANSMITTERS



**RICE LAKE**<sup>®</sup>  
WEIGHING SYSTEMS

800-472-6703  
[www.ricelake.com](http://www.ricelake.com)

# SCT-40

## SIGNAL CONDITIONING TRANSMITTERS

### Compact Control



Designed for PLC systems that require seamless integration of weight data, the SCT-40 provides reliable signal-conditioning function without the cost or bulk of a full size weight indicator/controller. With eight independent load cell channels, the SCT-40 delivers more power and more control in a compact design.

The versatile SCT-40 is DIN-rail mountable within a cabinet or control panel, where it converts a scale's load cell signal to analog output, serial output or a fieldbus protocol. Providing more interface surface than its predecessors, the SCT-40 is more technician-friendly and easier to use, which simplifies scale setup, calibration and operation. It comes complete with three digital inputs, five outputs, a 2.4 x 1.26 inch (60 x 32 millimeter) LCD display, annunciators for unit and weighing status, and push buttons for zero, tare and setpoint entry.

#### Standard Features

- LCD display, 2.4 in x 1.26 in (60 mm x 32 mm)
- Supports up to 8 independent reading channels for load cells
- Displays weight, configuration, calibration and error conditions
- DIN-rail mounting
- Theoretical calibration, real-weight calibration and error conditions
- Push-button or preset tare
- Converts digital weight to analog output or optional DeviceNet™, PROFIBUS or EtherNet/IP™ protocols
- Supports ASCII or Modbus RTU protocols
- Full scale analog cut put with zero setting and PLC correction of analog signal
- Bit swapping selection for little endian and endian format
- 3 digital inputs, 5 digital outputs
- One serial port, RS-232 simplex and RS-485 connection
- CD manual

#### SCT-40 Optional Protocols

- Ethernet TCP/IP
- EtherNet/IP™
- DeviceNet™
- PROFIBUS-DP
- Modbus TCP

#### SCT-40 Specifications

**POWER:**

Input: 12 VDC-24 VDC  
Power consumption: 5W  
Excitation Voltage: 5 VDC, 240 mA, 16 ohms x 350 ohms

**ANALOG SIGNAL:**

Input Range: ± 39mV  
Sensitivity: 0.1 µV/graduation minimum  
1.0 µV/graduation recommended

**A/D SAMPLE RATE:** 600 Hz

**RESOLUTION:**

Internal resolution: 16 million counts  
Weight display resolution: 999,999  
System linearity: ± 0.01% full scale

**DIGITAL INPUTS/OUTPUTS:**

3 inputs 5-24 VDC,  
5 outputs 115 VAC/150 mA

**SERIAL PORT:**

RS-485 or RS-232 simplex supports up to 115200 bps

**ANALOG OUTPUT:**

Optoisolated, 16 bit  
0-20 mA, 4-20 mA (max 300 ohms)  
0-10 VDC, 0-5 VDC (min 10,000 ohms)

**DISPLAY:**

Backlit graphical LCD, transmissive 128 x 64 pixel resolution, 60 mm x 32 mm visible area

**KEYPAD:**

Five-key tactile keypad: Test, Zero, Tare, Print Menu, Escape, Left and Up, Navigation, Enter

**OPERATING TEMPERATURE AND HUMIDITY:**

Working temperature: -4° F to 140° F (-20° C to 60° C)  
Humidity: 85% non-condensing

**DIMENSIONS:**

SCT converter (W x H x D): 5.82 in x 3.62 in x 2.36 in  
(148 mm x 92 mm x 60 mm)

**WEIGHT:**

1 lb (0.5 kg)

**RATING/MATERIAL:**

DIN rail mount: NEMA Type 1  
Sealed enclosure: NEMA Type 4/IP67, plastic enclosure, clear cover, 6 PG9 cord grips

**WARRANTY:**

One-year limited warranty

#### Approvals



Your Rice Lake Weighing Systems distributor is:

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