

# SCT-10/SCT-30

SIGNAL CONDITIONING  
TRANSMITTERS



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

To be the best by every measure<sup>®</sup>

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

# SCT-10/SCT-30

## SIGNAL CONDITIONING TRANSMITTERS



### Maximum Control, Miniature Size

For PLC systems that require weight data from a scale, Rice Lake's compact SCT transmitters deliver equivalent signal-conditioning function without the cost or bulk of a full-size weight indicator/controller.

Rice Lake SCT models are DIN Rail mountable within a cabinet or control panel, where they convert a scale's load cell signal to serial or analog output. Technicians and operators find the analog output signal particularly useful for monitoring hopper filling and discharge. Unlike many other signal transmitters, Rice Lake SCTs have their own integrated display, with annunciators for unit and weighing status, and push buttons or toggle switch and digital rotary for zero, tare and setpoint entry—ultimately simplifying scale setup, calibration and operation.

#### Standard Features

- Powers up to eight (350Ω) load cells in parallel (with a 24-bit A/D converter)
- A/D converter 24-bit (16000000 points) 4.8kHz
- 16-bit analog output: 0-20mA, 4-20mA, 0-5V, 0-10V, ±5V, and ±10V
- Mounting on Omega/DIN rail for back panel or junction box
- IP67-rated enclosed versions
- Diagnostic message for load cell disconnect and over capacity errors

#### SCT-10 Additional Standard Features

- RS-485 or RS-232 serial output, supports ASCII
- Two digital inputs that can be set as gross/net, zero, peak weight or print
- Two solid state relay outputs capable of driving up to 60ma at 24VDC
- Sums four load cell inputs
- Display range +999999; -999999

#### SCT-30 Additional Standard Features

- For applications requiring a fast response time (refresh time 0.003 -4 sec.)
- Perform theoretical calibration or real calibration
- Clearly legible, eight-digit alphanumeric LCD, two-line display
- RS-485 serial port Modbus RTU for connection to PC/PLC
- Simple ZERO setting and Full-Scale through digital rotary control (Encoder)

#### SCT-10 Specifications

<b>A/D SAMPLE RATE:</b>	80 Hz (Adjustable with filter settings 0-9)
<b>RESOLUTION:</b>	
Internal Resolution:	16 million counts
Weight Display Resolution:	999,999
System Linearity:	± 0.01% full scale
<b>DIGITAL INPUTS/OUTPUTS:</b>	
	2 inputs 5-24VDC, 2 outputs 24VDC/60mA N.O. or N.C. (solid state)
<b>DISPLAY:</b>	0.3in (8mm), six-digit, 7 segment LED
Annunciators:	Net, center of zero, stability, KG, G, LB Annunciators test status of inputs/outputs
<b>KEYBOARD:</b>	4-key membrane panel, tactile feel Zero, Tare, Print, Menu, Escape, Left & Up Navigation, Enter
<b>OPERATING TEMPERATURE &amp; HUMIDITY:</b>	
Working Temperature:	-4°F to 140°F (-20°C to 60°C)
Humidity:	85% non-condensing

#### DIMENSIONS (W x H x D):

SCT Converter:	4.84 x 3.62 x 1.96in (123 x 92 x 50mm)
IP67 Enclosure:	6.69 x 5.51 x 3.74in (170 x 140 x 95mm)

#### RATING/MATERIAL:

SCT-10 Materials:	NEMA 1, plastic enclosure, screw terminals
Sealed Enclosure:	NEMA 4X/IP67, plastic enclosure, clear cover, six PG9 cord grips

#### WARRANTY:

One-year limited warranty

#### SCT-30 Specifications

<b>A/D SAMPLE RATE:</b>	300 Hz
<b>RESOLUTION:</b>	
Internal Resolution:	16 million counts
System Linearity:	± 0.01% full scale
<b>DISPLAY:</b>	Eight-digit alphanumeric two line LCD 5 mm high
<b>OPERATING TEMPERATURE &amp; HUMIDITY:</b>	
Working Temperature:	-4°F to 140°F (-20°C to 60°C)
Humidity:	85% non-condensing

#### DIMENSIONS (W x H x D):

SCT Converter:	3.54 x 3.74 x 2.36in (90 x 95 x 60mm)
----------------	---------------------------------------

#### RATING/MATERIAL:

SCT-30 Materials:	NEMA 1, plastic enclosure, screw terminals
Sealed Enclosure:	NEMA 4/IP67, plastic enclosure, clear cover, six PG9 cord grips

#### WARRANTY:

One-year limited warranty

#### Approvals



Your Rice Lake Weighing Systems distributor is:

**RICE LAKE**  
WEIGHING SYSTEMS  
To be the best by every measure®

230 W. Coleman St. • Rice Lake, WI 54868 • USA  
TEL: 715-234-9171 • FAX: 715-234-6967 • [www.ricelake.com](http://www.ricelake.com)

An ISO 9001 registered company © 2014 Rice Lake Weighing Systems PN 131747 4/14  
Specifications subject to change without notice.