

# SCT-20

SIGNAL CONDITIONING  
TRANSMITTERS



**RICE LAKE**  
WEIGHING SYSTEMS

To be the best by every measure®

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# SCT-20

## SIGNAL CONDITIONING TRANSMITTERS



### Control in miniature

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.

Each Rice Lake SCT is DIN Rail mountable within a cabinet or control panel, where it converts a scale's load cell signals to analog

output, serial output, or a specific network protocol. Unlike many other signal transmitters, Rice Lake's SCT has its own .3 inch weight display, with annunciators for unit and weighing status, and push buttons for zero, tare and setpoint entry, simplifying scale setup, calibration and operation.

### Standard Features

- Powers up to eight load cells in parallel (with a 24 bit A/D converter)
- RS-485 or RS-232 serial output, supports ASCII and Modbus RTU
- 16-bit analog output resolution
- Diagnostic message for load cell disconnect and over capacity errors
- Analog outputs for displayed weight of 0-20mA, 4-20mA, 0-10V, 0-5V or +/-10V and +/-5V, selected as voltage or current, can track positive or negative weight values
- Two digital inputs that can be set as gross/net, zero, peak weight or print
- Three dry contract relay outputs capable of driving up to 150ma at 115VAC
- Single channel indicator

### SCT-20 Optional Protocols

- Analog Output
- Ethernet TCP/IP
- EtherNet/IP (ODVA Certification)
- DeviceNet
- Profibus DP
- Modbus/TCP

### Specifications SCT-20

**A/D SAMPLE RATE:** 300 Hz (Adjustable with filter settings 0-9)

#### RESOLUTION:

Internal Resolution: 16 million counts  
 Weight Display Resolution: 999,999  
 System Linearity: ± 0.01% full scale

#### DIGITAL INPUTS/OUTPUTS:

2 inputs 5-24VDC,  
 3 outputs 115 VAC/150mA  
 N.O. or N.C. (dry contact)

#### DISPLAY:

0.3in (8mm), six-digit, 7 segment LED

#### ANNUNCIATORS:

Net, center of zero, stability, KG, G, LB

#### KEYBOARD:

4-key push-button panel, tactile feel  
 Zero, Tare, Print, Menu, Escape, Left & Up Navigation, Enter

#### OPERATING TEMPERATURE & HUMIDITY:

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

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

SCT Converter: 0.98 x 4.52 x 4.72 in (25 x 115 x 120mm)

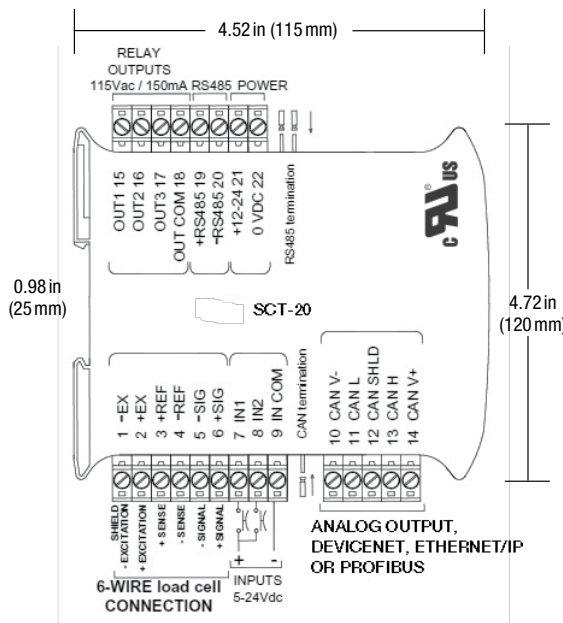
#### RATING/MATERIAL:

SCT Enclosure: NEMA 1 plastic pluggable connectors

#### WARRANTY:

One-year limited warranty

### Approvals



Dimensions: 0.98 x 4.52 x 4.72 in (25 x 115 x 120mm)

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