

SCT-10/SCT-20

SIGNAL CONDITIONING
TRANSMITTERS



AS **ASSOCIATED SCALE SERVICES**
07 3272 0077

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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 serves to convert 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)
- RS485 or RS232 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

SCT-10 Additional Standard Features

- 2 digital inputs that can be set as gross/net, zero, peak weight or print
- 2 solid-state relay outputs capable of driving up to 60 ma at 24VDC
- Sums 4 load cell inputs

SCT-20 Additional Standard Features

- 2 digital inputs that can be set as gross/net, zero, peak weight or print
- 3 dry contact relay outputs capable of driving up to 150 ma at 115 VAC
- Single channel indicator
- Bit swapping for DeviceNet protocol (little endian/big endian)
- Optional protocol outputs: ProfibusDP, DeviceNet, EtherNet/IP

Specifications SCT-10

A/D SAMPLE RATE:	80 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, 2 outputs 24VDC/60mA N.O. or N.C. (solid state)
DISPLAY:	0.3in (8mm), six-digit, 7 segment LED
Annunciators:	Net, center of zero, stability, KG, G, LB Annunciators test status of inputs/outputs
KEYBOARD:	4-key membrane 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:	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:	Plastic enclosure, screw terminals
Sealed Enclosure:	NEMA 4X/IP67, plastic enclosure, clear cover, six PG 9 cord grips
WARRANTY:	One-year limited warranty

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 115VAC/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 membrane 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 4.72in (25 x 115 x 120mm)
RATING/MATERIAL:	
SCT-20 Materials:	Plastic enclosure, pluggable connectors
WARRANTY:	One-year limited warranty

Rice Lake Weighing System Distributor for Australia. For sales of new equipment or spare parts please contact our support team at sales@associatedscales.com.au.



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