

Rice Lake’s Family of SCT Models

A Comparative Matrix and Quick Reference by Type



Specification Matrix	SCT-1SX	SCT-2200	SCT-4X	SCT-1100	SCT-30	SCT-40
Analog Signal Sensitivity	0.01 µV/graduation minimum 0.3 µV/graduation recommended	0.03 µV/graduation minimum 0.3 µV/graduation recommended	0.01 µV/graduation minimum 0.3 µV/graduation recommended	0.03 µV/graduation minimum 0.3 µV/graduation recommended	0.1 µV/graduation minimum 1.0 µV/graduation recommended	0.1 µV/graduation minimum 1.0 µV/graduation recommended
A/D Sample Rate	Up to 4,800 conv/sec.	One channel A/D Up to 200 conv/sec. auto select	Up to 2,600 conv/sec. (single channel), Up to 100 conv/sec. (four channel)	Four channel A/D, Up to 200 conv/sec. auto select	Four channel A/D Up to 300 conv/sec.	Eight channel A/D Up to 600 conv/sec.
Resolution	Internal: 1,500,000 counts Displayed: 800,000	Internal: 1,500,000 counts Displayed: 800,000	Internal: 3,000,000 counts Displayed: 800,000	Internal: 1,500,000 counts Displayed: 800,000	Internal: 16 million counts	Internal: 16 million counts Displayed: 999,999
Power	Input: 12-24 VDC, 5 W Power Consumption: 70 mA min - 100 mA max	Input: 12-24 VDC Power Consumption: 70 mA min - 100 mA max	Input: 12-24 VDC Power Consumption: 70 mA min - 100 mA max	Input: 12-24 VDC Power Consumption: 70 mA min - 100 mA max	Input: 12-24 VDC Power Consumption: 3 W	Input: 12-24 VDC Power Consumption: 5 W
Excitation Voltage	5 VDC, 120 mA, 16 × 350 ohm load cells	5 VDC, 120 mA, 8 × 350 ohm load cells	5 VDC, 120 mA, up to 16 × 350 ohm cells	5 VDC, 120 mA, 8 × 350 ohm load cells	5 VDC, 120 mA, 8 × 350 ohm load cells	5 VDC, 240 mA, 16 x 350 ohm load cells
Analog Signal Input Range	± 39 mV	± 39 mV	± 39 mV	± 39 mV	± 39 mV	±39 mV
Digital Inputs/Outputs	Two inputs, configurable: 12-24 VDC Four outputs, configurable: 150 mA 48 VAC/150 mA 60 VDC	Two inputs: 12-24 VDC Two outputs:150 mA 48 VAC/150 mA 60 VDC	Two inputs: 12-24 VDC Two outputs: 150 mA 48 VAC/150 mA 60 VDC	Two inputs: 12-24 VDC Two outputs: 150 mA 48 VAC/150 mA 60 VDC	N/A	Three inputs: 5-24 VDC Five outputs: 115 VAC/150 mA
Communication/ Serial Port	1 Micro USB, (1) RS-485	RS-485, RS-232	1 Micro USB, RS-485, RS-232	RS-485, RS-232	RS-485	RS-485 or RS-232 simplex supports up to 115,200 bps
Analog Output (if equipped)	Analog Model: 0-20 mA, 4-20 mA, 0-5 VDC, 0-10 VDC	Analog Model: 0-20 mA, 4-20 mA, 0-5 VDC, 0-10 VDC	Analog Model: 0-20 mA, 4-20 mA, 0-5 VDC, 0-10 VDC	Analog Model: 0-20 mA, 4-20 mA, 0-5 VDC, 0-10 VDC	Analog Model: 0-20 mA, 4-20 mA, 0-5 VDC, 0-10 VDC	Analog Model: 0-20 mA, 4-20 mA, 0-5 VDC, 0-10 VDC
Supported Modules / Protocols*	EtherNet/IP, Modbus/TCP, PROFINET Web Server compatibility	EtherNet/IP, DeviceNet, PROFIBUS DP, Modbus/TCP, PROFINET, EtherCAT, CANopen, Ethernet TCP/IP, Wi-Fi	EtherNet/IP, Modbus/TCP, PROFINET	Modbus/TCP, Ethernet TCP/IP	N/A	DeviceNet, PROFIBUS, EtherNet/IP, Modbus/TCP, PROFINET I/O, Ethernet TCP/IP
Web Server compatibility	Yes	Yes	Yes	No	No	No
Display	Six-digit (10 mm), red LED Annunciators: Net, Center of Zero, Stability	Six-digit (8 mm), red LED Annunciators: Net, center of zero, stability	Six-digit (14.2 mm), red LED Annunciators: Net, Center of Zero, Stability	Six-digit (13 mm), red LED Annunciators: Net, Center of Zero, Stability	Eight-digit alphanumeric tow line LCD, 5 mm high	Backlit graphic LCD, transmissive 128 x 64 pixel resolution, 60 x 32 mm visible area
Keyboard	Five key, membrane panel, tactile feel Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)	Five key, tactile feel Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)	Five key, tactile feel Zero, Tare, mode, print, on/stand-by	Five key, membrane panel, tactile feel Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)	Control knob and DIP switches	Five-key tactile feel Test, Zero, Tare, Print Menu, Escape, Left and Up, Navigator, Enter
Temperature & Humidity	Operating: -4 F to 140 F (-20 C to 60 C) Humidity: 5% non-condensing	Working Temperature: 14 °F to 122 °F (-10 °C to50 °C) Humidity: 85% non-condensing	Operating: -4F to 140F (-20 C to 60 C) Humidy: 80% non-condensing	Operating: 5 °F to 104 °F (-15 °C to 40 °C) Humidity: 85% non-condensing	Operating: -4° F to 140 °F (-20 °C to 60 °C) Humidity: 85% non-condensing	Operating: -4 °F to 140 °F (-20 °C to 60 °C) Humidity: 85% non-condensing
Dimensions (L x W x H)	4.72 × 0.9 × 4.0 in (120 × 23 × 112 mm)	4.72 x 0.98 x 4.52 in (120 x 25 x 115 mm)	4.17 × 2.20 × 4.64 in (106 × 56 × 118 mm)	4.17 × 3.54 × 2.28 in (106 × 90 × 58 mm)	3.54 × 3.74 × 2.36 in) (90 × 95 × 60 mm)	5.82 × 3.62 × 2.36 in (148 × 92 × 60 mm)
Weight (Est. Shipping)	1lb (0.5 kg)	1lb (0.5 kg)	1lb (0.5 kg)	1lb (0.5 kg)	1lb (0.5 kg)	1lb (0.5 kg)
Rating/Material	DIN rail mount: NEMA Type 1 plastic pluggable connectors	DIN rail mount: NEMA Type 1 plastic pluggable connectors	DIN rail mount: NEMA Type 1 plastic pluggable connectors	DIN rail mount: NEMA Type 4 plastic	DIN rail mount: NEMA Type 1	DIN rail mount: NEMA Type 1
Approvals	NTEP 20-046, Measurement Canada AM-6165C, CE-M EN 45501, 2014/30/EU EMC, 2014/35/EU LVD 2011/65/EU RoHS, OIML R61 - MID, OIML R76	NTEP 20-046, Measurement Canada AM-6165C, OIML R76/2006-A-GB1-19.17v	NTEP 20-046, Measurement Canada AM-6165C, CE-M EN 45501	NTEP 20-046, Measurement Canada AM-6165C, OIML R76/2006-A-GB1-19.17, UKCA Marked cULus Listed	cULus Recognized	cULus Recognized
Warranty	One-year limited	One-year limited	One-year limited	One-year limited	One-year limited	One-year limited
Software, Configuration setup and backup	RL Tools (free download)	RL Tools (free download)	RL Tools (free download)	RL Tools (free download)	N/A	N/A
Software, Oscilloscope filtering	X-Speed	N/A	X-Speed	N/A	N/A	N/A

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 SCT is DIN rail mountable within a cabinet or control panel, where the scale’s load cell signal is converted to analog output, serial output, or a specific network protocol. Unlike many other signal transmitters, Rice Lake’s SCT features a weight display. Annunciators for unit and weighing status, as well as push buttons keys simply scale setup, calibration and operation.

*The following references: EtherNet/IP, DeviceNet, PROFIBUS DP, Modbus, PROFINET, EtherCAT, and CANopen are the property of their respective trademark holders.