

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 μ V/graduation minimum 0.3 μ V/graduation recommended	0.03 μ V/graduation minimum 0.3 μ V/graduation recommended	0.01 μ V/graduation minimum 0.3 μ V/graduation recommended	0.03 μ V/graduation minimum 0.3 μ V/graduation recommended	0.1 μ V/graduation minimum 1.0 μ V/graduation recommended	0.1 μ V/graduation minimum 1.0 μ V/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 \times 350 ohm load cells	5 VDC, 120 mA, 8 \times 350 ohm load cells	5 VDC, 120 mA, up to 16 \times 350 ohm cells	5 VDC, 120 mA, 8 \times 350 ohm load cells	5 VDC, 120 mA, 8 \times 350 ohm load cells	5 VDC, 240 mA, 16 \times 350 ohm load cells
Analog Signal Input Range	\pm 39 mV	\pm 39 mV	\pm 39 mV	\pm 39 mV	\pm 39 mV	\pm 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 to 50 C) Humidity: 85% non-condensing	Operating: -4F to 140F (-20 C to 60 C) Humidity: 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 \times 0.9 \times 4.0 in (120 \times 23 \times 112 mm)	4.72 \times 0.98 \times 4.52 in (120 \times 25 \times 115 mm)	4.17 \times 2.20 \times 4.64 in (106 \times 56 \times 118 mm)	4.17 \times 3.54 \times 2.28 in (106 \times 90 \times 58 mm)	3.54 \times 3.74 \times 2.36 in (90 \times 95 \times 60 mm)	5.82 \times 3.62 \times 2.36 in (148 \times 92 \times 60 mm)
Weight (Est. Shipping)	1 lb (0.5 kg)	1 lb (0.5 kg)	1 lb (0.5 kg)	1 lb (0.5 kg)	1 lb (0.5 kg)	1 lb (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.

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