SCT-4X and SCT-1SX

HIGH-SPEED WEIGHT TRANSMITTERS WITH INTEGRATED WEBSERVER

RICE LAKE®
WEIGHING SYSTEMS

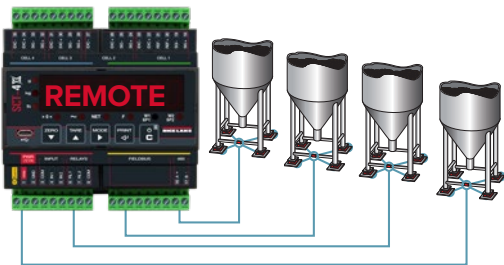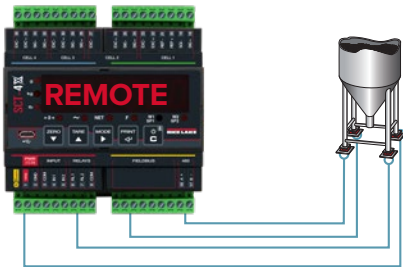800-472-6703
www.ricelake.com

A Leap in Speed

SCT-4X and SCT-1SX digital weight transmitters are high-speed solutions designed for reliable performance in a variety of applications, including belt scales, micro-dosing and multiscale systems. Serial ports, USB and built-in fieldbus make the SCT-4X and SCT-1SX ideal for automated weighing.

SCT-4X

The SCT-4X can manage up to four load cells or four scales and processes up to 2,600 weight readings per second for a single-channel system. When managing four load cells, the SCT-4X acts as a junction box to equalize the signals.

Manage Four Scales

Manage Four Load Cells

SCT-1SX

Process up to 4,800 weight readings per second for a single scale channel. A customizable weight filter supports a reliable and accurate weight signal without sacrificing high speed.

Removable terminal blocks simplify wiring.

Calibration MODES

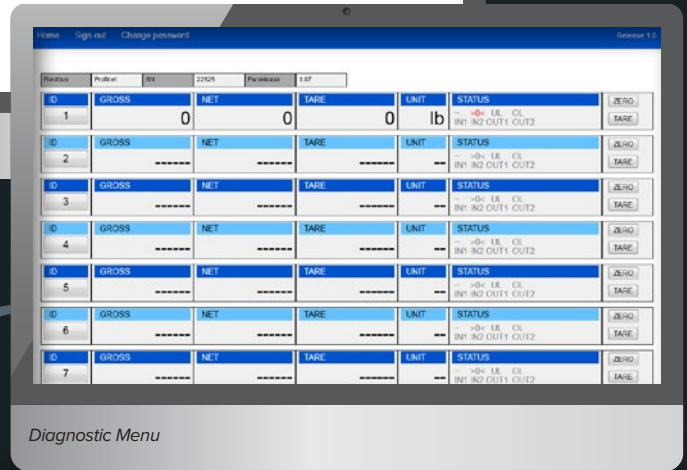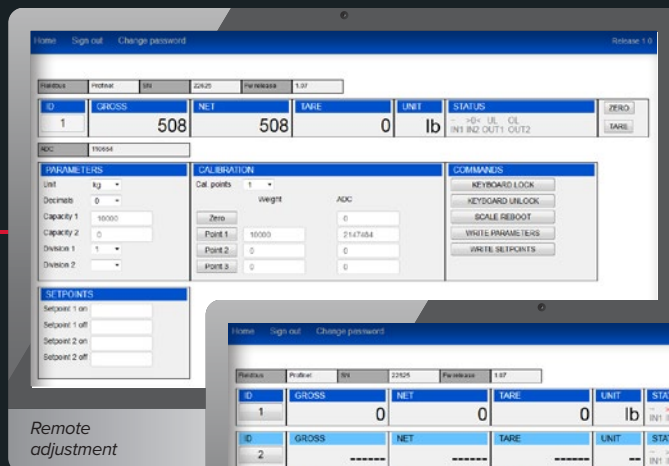| **1**	**2**	**3**	**4**	**5**	**6**
Electronic adjustment without calibration weight	Adjustment using calibration weights by keyboard	Adjustment using calibration weights via serial port using with Rice Lake Tools	Digital equalization mode by keyboard (SCT-4X only)	Remote adjustment via Modbus/Fieldbus commands	Pre-adjustment (linearization) of the weighing circuit using with Rice Lake Tools

Integrated Webserver

The integrated webserver allows operators to remotely monitor, calibrate and configure the fieldbus models of SCT-4X and SCT-1SX.

Communication Options

- ASCII
- Modbus RTU
- Modbus TCP
- PROFINET
- EtherNet/IP

Remote adjustment

Diagnostic Menu

XSPEED TOOL

Custom Filtering for Maximum Speed

With optional XSPEED Tool software for PCs, operators can customize weighing filters to optimize speed and accuracy for static and in-motion systems. The oscilloscope function allows operators to analyze system diagnostics, and select the best filtering mode.

Ensure System Performance

- Intuitive graphical interface with easy-to-understand charts and graphs
- Straightforward menus for easy navigation and access to data
- Identify mechanical disturbances and vibrations

SCT-4X and SCT-1SX

HIGH-SPEED WEIGHT TRANSMITTERS WITH INTEGRATED WEBSERVER

SPECIFICATIONS

	SCT-4X	SCT-1SX
Power:	12 to 24 VDC	12 to 24 VDC, 5 W
Power Consumption:	5W	5V, 120 mA, 16 × 350 ohm load cells
Analog Signal Input Range:	± 39 mV	± 39 mV
Analog Signal Sensitivity:	0.3 μV/graduation minimum	High resolution 0.01 μV/d Legal for trade 0.3 μV/e
A/D Sample Rate:	24-bit A/D Single-channel up to 2600 conv/sec 4 channels up to 100 conv/sec	Up to 4800 Hz
Resolution		
Internal:	3,000,000 counts	1,500,000 counts
Display:	up to 800,000 Up to 8 linearization points	800,000 Legal-for-trade divisions Up to 10,000e or multi-field 2 × 3,000e
Digital I/O		
Inputs:	Two inputs: 12/24 VDC	Two inputs, configurable: 12/24 VDC
Outputs:	Two outputs: 150 mA 48 VAC/150 mA 60 VDC	Four outputs, configurable: 150 mA 48 VAC/ 150 mA 60 VDC
Communication Ports:	1 Micro-USB port (device) for PC configuration (1) RS-485, (1) RS-232	(1) RS-485, (1) RS-232 1 micro-USB port (device) Serial port update rate: up to 1600 Hz Fieldbus update rate: up to 120 Hz
Analog Output (if equipped):		
	Opt. isolated, 16-bit 0-20mA, 4-20mA (Maximum 350 ohm) 0-5 VDC, 0-10 VDC (Minimum 10,000 ohm)	Opt. isolated, 16-bit 0-20mA, 4-20mA (Maximum 350 ohm) 0-5 VDC, 0-10 VDC (Minimum 10,000 ohm)
Annunciators:	Nine LEDs	Net, center of zero, stability
Display:	Six-digit 0.31 in (8 mm), red LED	Six-digit (8 mm), red LED
Keys/Buttons:	Five tactile keys Zeroing, Tare, Function mode, Manual data printing/sending, ON/Stand-by	Five key, membrane panel Zero (Down), Tare (Up), Mode (Right), Print (Enter), C (On/Off)
Dimensions:	(L × W × H) 4.17 x 2.20 x 4.64 inches (106 x 56 x 118 mm)	(L × W × H) 4.72 x 0.90 x 4.00 in (120 x 23 x 112 mm)
Temperature & Humidity:	Certified: 14 °F to 104 °F (-10 °C to 40 °C) Operating: -4 °F to 140 °F (-20 °C to 60 °C)	For internal use -20°C to 60°C Approved -10°C to 40°C Humidity: 85% non-condensing
Humidity:	80% RH, non-condensing	-
Rating/Material:	NEMA Type 1 plastic pluggable connectors ABS	Enclosure: ABS plastic
Weight:	1 lb (0.5 kg)	-
Warranty:	One-year limited	One-year limited
Approvals:	CE-M EN 45501 (uL upon request)	CE-M EN 45501 (uL upon request)

STANDARD FEATURES

- Integrated web server allows complete diagnostics, calibration and remote configuration
- Real-time warning of any faults or disconnections of the load cell
- Configuration and calibration through Rice Lake Tools, XSpeed software or display navigation
- Power supply circuit with protections against overloads, polarity reversal and short circuits, specific for industrial environments
- Micro USB communication & configuration port accessible from display for quick programming, diagnostics and data backup
- Onboard RS-485 communication port (SCT-1SX analog models only)
- All data and adjustments of each scale are available through integrated fieldbus with up to 120 updates per second
- Removable terminal blocks to simplify wiring in the electrical panel
- Modbus RTU protocol integrated, up to 110 updates per second
- Up to 120 updates per second on fieldbus

SALES AND TECHNICAL ASSISTANCE