SCT-1100 and SCT-2200 Advanced Series
Signal Conditioning Transmitter/Indicator

APPROVALS

c UL us LISTED

SCT1100-AN with Analog Output

APPROVALS

c UL us LISTED

SCT2200 with EtherNet/IP Fieldbus Module

	SCT-1100 Specifications	SCT-2200 Specifications
Power	12/24 VDC, Power Consumption: 70 mA min – 100 mA max	12/24 VDC, Power Consumption: 70 mA min – 100 mA max
Excitation Voltage	5VDC, 120 mA, 8 x 350 Ω	5 VDC, 120 mA, 8 x 350 Ω
Analog Signal Input Range	± 39 mV	± 39 mV
Analog Signal Sensitivity	0.03 µV/graduation minimum 0.3 µV/graduation recommended	0.03 µV/graduation minimum 0.3 µV/graduation recommended
A/D Sample Rate	Four channel A/D 24-bit sigma-delta conversion, up to 200 conv. /sec. auto select	One channel A/D 24-bit sigma-delta conversion, up to 200 conv. /sec. auto select
Resolution	Internal resolution: 1.5 million counts Weight display resolution: 800,000 minimum	Internal resolution: 1.5 million counts Weight display resolution: 800,000 minimum
Digital Inputs/Outputs	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
Serial Port	(1) RS-485, (1) RS-232	(1) RS-485, (1) RS-232
Analog Output (if equipped)	Opt isolated, 16-bit 0-20mA, 4-20mA (Maximum 350,000 ohm) 0-5VDC, 0-10VDC (Minimum 10,000 ohm)	Opt isolated, 16-bit 0-20mA, 4-20mA (Maximum 350,000 ohm) 0-5VDC, 0-10VDC (Minimum 10,000 ohm)
Display	Six-digit 0.51 in (13 mm), red LED Annunciators: Net, center of zero, stability	Six-digit 0.31 in (8 mm), red LED Annunciators: Net, center of zero, stability
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)
Temperature & Humidity	Working Temperature: -15° C to 40° C Humidity: 85% non-condensing	Working Temperature: -10° C to 50° C Humidity: 85% non-condensing
Dimensions (W x H x D)	4.17 in x 3.54 in x 2.28 in (106 mm x 90 mm x 58 mm)	0.98 in x 4.52 in x 4.72 in (25 mm x 115 mm x 120 mm)
Weight	1 lb (0.5 kg)	1 lb (0.5 kg)
Rating/Material	NEMA Type 1 plastic pluggable connectors	NEMA Type 1 plastic pluggable connectors
Warranty	One-year limited warranty	One-year limited warranty

Standard Features

- Quick menu for real and theoretical calibration
- Red LED display (13 mm) and six LEDs show active functions
- Standard DIN rail-mounting with power supply and enclosures
- Configurable calibration and setup parameters from keyboard
- Up to three calibration linearization points or three from the keyboard
- Reading of the net, gross and tare weights, clearing, semi-automatic and presettable tare, scale switch, setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, setting of APW in counting mode, simulation of key pressure

Standard Features

- HUB Mode connects up to 16 transmitters to one fieldbus
- Quick menu for real and theoretical calibration
- Red LED display with six-digits (8 mm) and six LEDs show active functions
- Standard DIN rail mounting with power supply and enclosures
- Configurable calibration and setup parameters from keyboard
- Up to three calibration linearization points or three from the keyboard
- Reading of the net, gross and tare weights, clearing, semi-automatic and presettable tare, scale switch, setting of outputs application thresholds
- Diagnostic information via serial port, message display, printing, setting of APW in counting mode, simulation of key pressure, Modbus RTU
- Double RS-485 port for a quick network connection
- Printer management on second serial port available
- Multi-range function allows for subdividing the scale capacity in two, each up to 3,000 divisions

SCT-3300
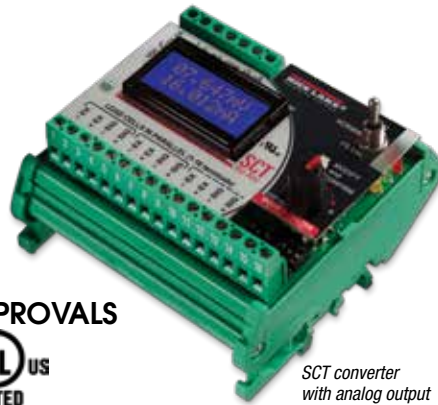## Signal Conditioning Transmitter/Indicator

SCT-3300 Specifications	
Power	Input: 20-28 VDC Power consumption: 8 W
Excitation Voltage	10 VDC, 170 mA, 6 x 350 Ω
Analog Signal Input Range	3.5 to 24 mV
Analog Signal Sensitivity	0.1 µV/graduation minimum 1.0 µV/graduation recommended
A/D Sample Rate	300 Hz
Resolution	Internal resolution: 16 million counts System linearity: ± 0.01% full scale
Analog Output (if equipped)	Optoisolated, 16 bit 0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC (min 10,000 ohm)
Temperature & Humidity	Working temperature: 14° F to 122° F (-10° C to 50° C) Humidity: 85% non-condensing
Dimensions (W x H x D)	4.56 in x 3.72 in x 2.4 in (114 mm x 93 mm x 60 mm)
Weight	0.5 lb (0.2 kg)
Rating/Material	DIN rail mount: NEMA Type 1
Warranty	One-year limited warranty

Standard Features

- Powers up to six (350 Ω) load cells in parallel (with a 24-bit A/D converter)
- A/D converter 24-bit (16,000,000 points)
- 12-bit analog output: 0-20 mA, 4-20 mA, 0-10 V
- Mounting on Omega/DIN rail for back panel or junction box
- IP67-rated enclosed versions

Phone: (281) 474-5277 | www.weigh-tech.com

541

SCT-30 and SCT-40
Signal Conditioning Transmitter/Indicator

APPROVALS

c(UL)us LISTED

*SCT converter
with analog output*

APPROVALS

c(UL)us LISTED

	SCT-30 Specifications	SCT-40 Specifications
Power	Input: 12 -24 VDC Power consumption: 3W	Input: 12 -24 VDC Power consumption: 5W
Excitation Voltage	5 VDC, 120 mA, 8 x 350 Ω	5 VDC, 240 mA, 16 x 350 Ω
Analog Signal Input Range	± 39 mV	±39 mV
Analog Signal Sensitivity	0.1 µV/graduation minimum 1.0 µV/graduation recommended	0.1 µV/graduation minimum 1.0 µV/graduation recommended
A/D Sample Rate	300 Hz	600 Hz
Resolution	Internal resolution: 16 million counts System linearity: ± 0.01% full scale	Internal resolution: 16 million counts Weight display resolution: 999,999 System linearity: ± 0.01% full scale
Digital Inputs/Outputs	N/A	3 inputs 5-24 VDC, 5 outputs, 115 VAC/150 mA
Serial Port	RS-485	RS-485 or RS-232 simplex supports up to 115,200 bps
Analog Output (if equipped)	Optoisolated, 16 bit 0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC, 0-5 VDC (min 10,000 ohm)	Optoisolated, 16 bit 0-20 mA, 4-20 mA (max 300 ohm) 0-10 VDC, 0-5 VDC (min 10,000 ohm)
Display	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	Control knob and DIP switches	Five-key tactile keypad Test, Zero, Tare, Print Menu, Escape, Left and Up, Navigator, Enter
Temperature & Humidity	Working temperature: -4° F to 140° F (-20° C to 60° C) Humidity: 85% non-condensing	Working temperature: -4° F to 140° F (-20° C to 60° C) Humidity: 85% non-condensing
Dimensions (W x H x D)	SCT converter (W x H x D): 3.54 in x 3.74 in x 2.36 in (90 mm x 95 mm x 60 mm) IP67 enclosure (W x H x D): 6.69 in x 5.51 in x 3.74 in (170 mm x 140 mm x 95 mm)	SCT converter (W x H x D): 5.82 in x 3.62 in x 2.36 in (148 mm x 92 mm x 60 mm)
Weight	1 lb (0.5 kg)	1 lb (0.5 kg)
Rating/Material	DIN rail mount: NEMA Type 1 Sealed enclosure: NEMA Type 4/IP67, plastic enclosure, clear cover, six PG9 cord grips	DIN rail mount: NEMA Type 1 Sealed enclosure: NEMA Type 4/IP67, plastic enclosure, clear cover, six PG9 cord grips
Warranty	One-year limited warranty	One-year limited warranty

Standard Features

- LCD display, 5 mm, eight-digit
- Powers up to eight (350 Ω) load cells in parallel (with a 24-bit A/D converter)
- A/D converter 24-bit (16,000,000 points) 4.8 kHz
- 16-bit analog output: 0-20 mA, 4-20 mA, 0-5 V, 0-10 V, ±5 V, and ±10 V
- Mounting on Omega/DIN rail for back panel or junction box
- IP67-rated enclosed versions
- Diagnostic message for load cell disconnect and over capacity errors

Standard Features

- LCD display, 60 mm x 32 mm
- Supports up to eight independent reading channels for load cells
- Displays weight, configuration, calibration and error conditions
- DIN rail mounting
- Theoretical calibration, real-weight calibration and error conditions
- Push button or preset tare
- Converts digital weight to analog output or optional DeviceNet™, Profibus™ or EtherNet/IP™ protocols
- Supports ASCII or MODBUS RTU protocols
- Full scale analog cut put with zero setting and PLC correction of analog signal
- Bit swapping selection for little endian and endian format
- Three digital inputs, five digital outputs
- One serial port, RS-232 simplex and RS-485 connection
- CD manual

SCT-1100

Part Number/Price

Part #	Description	Est. Weight	Price
182588	Indicator, SCT1100-AN four load cell input with analog output	1 lb	Consult

SCT-2200

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitters			
182587 *	Indicator, SCT2200 for scale input to be used with fieldbus module	1 lb	Consult
182589	Indicator, SCT2200-AN Analog Output	1 lb	Consult
Fieldbus			
182592	Fieldbus, SCT2200, Profinet Module	1 lb	Consult
182594	Fieldbus, SCT2200, Wi-Fi Module	1 lb	Consult
182593	Fieldbus, SCT2200, Profibus Module	1 lb	Consult
182591	Fieldbus, SCT2200, EtherNet/IP Module	1 lb	Consult
182596	Fieldbus, SCT2200, DeviceNet Module	1 lb	Consult
182598	Fieldbus, SCT2200, EtherCAT Module	1 lb	Consult
182597	Fieldbus, SCT2200, CANopen Module	1 lb	Consult
188483	SCT converter RS 232/485 to EtherNet TCP/IP and Modbus TCP	1 lb	Consult
182599	Cable	1 lb	Consult

How to Order the SCT-2200
Order SCT-2200 transmitter.
Order fieldbus module (HUB mode connects up to 16 transmitters to one fieldbus module).
Order cables: (Number of SCTs — 1) + (1 for Fieldbus).

SCT-3300

Part Number/Price

Part #	Description	Est. Weight	Price
Transmitters			
188725	Indicator, SCT-3300 four load cell input with analog output	1 lb	Consult

Power Supply

Part Number/Price

Part #	Description	Est. Weight	Price
88792	12 VDC 1.2 A DIN rail mounted power supply	1 lb	Consult
119244	24 VDC 1.3 A DIN rail mounted power supply	1 lb	Consult

SCT-10

Part Number/Price

Part #	Description	Est. Weight	Price
129393	SCT-10 converter with analog output	1 lb	Consult
129394	SCT-10 converter with analog output in enclosure	1 lb	Consult
131129	Installation manual	1 lb	Consult

SCT-20

Part Number/Price

Part #	Description	Est. Weight	Price
129396	SCT-20 converter with analog output	1 lb	Consult
129397	SCT-20 converter with DeviceNet™	1 lb	Consult
129558	SCT-20 converter with Profibus™ DP	1 lb	Consult
129398	SCT-20 converter with EtherNet/IP™	1 lb	Consult
132534	SCT-20 converter with EtherNet TCP/IP™	1 lb	Consult
156903	SCT-20 converter with Modbus/TCP	1 lb	Consult
131128	Installation manual	1 lb	Consult
NTEP Approved			
162883	SCT-20 converter with analog output		Consult
162886	SCT-20 converter with EtherNet/IP		Consult
162887	SCT-20 converter with EtherNet TCP/IP		Consult

SCT-30

Part Number/Price

Part #	Description	Est. Weight	Price
156794	SCT-30 converter with analog output	1 lb	Consult
156834	SCT-30 converter with analog output in enclosure	1 lb	Consult
131129	Installation manual	1 lb	Consult

SCT-40

Part Number/Price

Part #	Description	Est. Weight	Price
170470	SCT-40 with analog output	1 lb	Consult
170471	SCT-40 with DeviceNet	1 lb	Consult
170472	SCT-40 with Profibus	1 lb	Consult
170473	SCT-40 with EtherNet/IP	1 lb	Consult
170474	SCT-40 with TCP/IP	1 lb	Consult
170475	SCT-40 with Modbus/TCP	1 lb	Consult
170476	SCT-40 with Profinet/I/O	1 lb	Consult
131128	Installation manual	1 lb	Consult

INDICATORS / CONTROLLERS

Phone: (281) 474-5277 | www.weigh-tech.com

543