

# NEW SCT-30 and SCT-40

Signal Conditioning Transmitter/Indicator



## APPROVALS



SCT converter  
with analog output



## APPROVALS



|                                    | SCT-30 Specifications   | SCT-40 Specifications   |
|------------------------------------|---|---|
| <b>Power</b>                       | Input: 12 -24 VDC<br>Power consumption: 3W  | Input: 12 -24 VDC<br>Power consumption: 5W  |
| <b>Excitation Voltage</b>          | 5 VDC, 120 mA, 8 x 350 Ω  | 5 VDC, 240 mA, 16 x 350 Ω   |
| <b>Analog Signal Input Range</b>   | ± 39 mV   | ±39 mV  |
| <b>Analog Signal Sensitivity</b>   | 0.1 μV/graduation minimum<br>1.0 μV/graduation recommended  | 0.1 μV/graduation minimum<br>1.0 μV/graduation recommended  |
| <b>A/D Sample Rate</b>             | 300 Hz  | 600 Hz  |
| <b>Resolution</b>                  | Internal resolution: 16 million counts<br>System linearity: ± 0.01% full scale  | Internal resolution: 16 million counts<br>Weight display resolution: 999,999<br>System linearity: ± 0.01% full scale  |
| <b>Digital Inputs/Outputs</b>      | N/A   | 3 inputs 5-24 VDC, 5 outputs, 115 VAC/150 mA  |
| <b>Serial Port</b>                 | RS-485  | RS-485 or RS-232 simplex supports up to 115,200 bps   |
| <b>Analog Output (if equipped)</b> | Optoisolated, 16 bit<br>0-20 mA, 4-20 mA (max 300 ohm)<br>0-10 VDC, 0-5 VDC (min 10,000 ohm)  | Optoisolated, 16 bit<br>0-20 mA, 4-20 mA (max 300 ohm)<br>0-10 VDC, 0-5 VDC (min 10,000 ohm)                          |
| <b>Display</b>                     | Eight-digit alphanumeric tow line LCD, 5 mm high  | Backlit graphic LCD, transmissive<br>128 x 64 pixel resolution, 60 x 32 mm visible area                               |
| <b>Keyboard</b>                    | Control knob and DIP switches   | Five-key tactile keypad<br>Test, Zero, Tare, Print Menu, Escape, Left and Up, Navigator, Enter                        |
| <b>Temperature &amp; Humidity</b>  | Working temperature: -4°F to 140°F (-20°C to 60°C)<br>Humidity: 85% non-condensing  | Working temperature: -4°F to 140°F (-20°C to 60°C)<br>Humidity: 85% non-condensing                                    |
| <b>Dimensions (W x H x D)</b>      | SCT converter (W x H x D): 3.54 in x 3.74 in x 2.36 in<br>(90 mm x 95 mm x 60 mm)<br>IP67 enclosure (W x H x D): 6.69 in x 5.51 in x 3.74 in<br>(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<br>(148 mm x 92 mm x 60 mm)                                    |
| <b>Weight</b>                      | 1 lb (0.5 kg)   | 1 lb (0.5 kg)   |
| <b>Rating/Material</b>             | DIN rail mount: NEMA Type 1<br>Sealed enclosure: NEMA Type 4/IP67, plastic enclosure, clear cover, six PG9 cord grips   | DIN rail mount: NEMA Type 1<br>Sealed enclosure: NEMA Type 4/IP67, plastic enclosure, clear cover, six PG9 cord grips |
| <b>Warranty</b>                    | One-year limited warranty   | One-year limited warranty   |

## Standard Features

- LCD display, 5 mm, eight digits
- Powers up to eight (350 ohm) load cells in parallel (with a 24-bit A/D converter)
- A/D converter 24-bit 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 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