

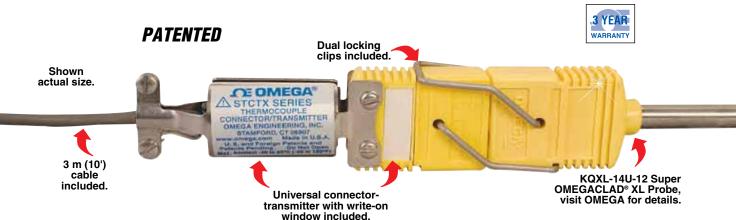
miniature signal conditioner built into the connector housing. The SPRTX signal conditioner converts the resistive change of a 100 Ω , 0.00385 RTD sensor or probe across a dedicated temperature range into an industry-standard 2-wire, 4 to 20 mA analog output. The STCTX signal conditioner amplifies the non-linear millivolt output of a thermocouple sensor 9 to 24 Vdc @ 30 mA max Output: Linearized 4 to 20 mA Accuracy: $\pm 0.5\%$ of FS @ 23°C (73°F) ambient Repeatability: ± 0.25 °C ($\pm 0.5^{\circ}$ F) Temperature Effect: ± 0.0022 mA/°C (± 0.0012 mA/°F) Max Load: Rmax(Ω) = (Vsupply – 9V)/0.02 A

Female connector fits both standard and miniature probe connectors.

"FITS ALL"

Actual size.

Two-Wire Transmitter Built into a Thermocouple Connector!



SPRTX Series for RTDs Range:

SPRTX-M1, SPRTX-S1: -99 to 208°C (-146 to 406°F) SPRTX-M2, SPRTX-S2: 2 to 569°C (36 to 1056°F)

Input: 3-wire, PT100 (a = 0.00385) Open Sensor Wire Indication:

Leg 1: Open = 27 mA

Leg 2: Open = 2.2 mA Leg 3: Open = 2.2 mA

Input Connection:

SPRTX-M1, SPRTX-M2: 3-prong miniature connector (MTP-U-F)

SPRTX-S1, SPRTX-S: 3-prong standard-size connector (OTP-U-F)

Dimensions: SPRTX-M1, SPRTX-M2: 24 H x 18 W x 79 mm L (0.96 x 0.70 x 3.12")

SPRTX-S1, SPRTX-S2: 36 H x 18 W x 83 mm L (1.43 x 0.70 x 3.25") Approvals: CE marked

STCTX Series for Thermocouples

Range by Model: STCTX-J1, -K1, -T1: -18 to 121°C (0 to 250°F) STCTX-J2, -K2: -18 to 538°C (0 to 1000°F) STCTX-K3: -18 to 1093°C (0 to 2000°F) STCTX-T2: -18 to 399°C (0 to 750°F) Input: Thermocouple signal (ungrounded sensors only) Type J, K or T by model

Open Sensor Indication: 22 to 27 mA

Input Connection: Universal thermocouple connector (UST Series) Supply Voltage: 9 to 24 Vdc @ 30 mA

Output: 4 to 20 mA (2-wire)

Accuracy: ±0.5% of full scale millivolt input @ 23°C (73°F) plus the non-linearity of the thermocouple type (Note: The STCTX does not compensate for thermocouple non-linearity)

Ambient Temp Effect: ±0.015 mA/°C Max Loop Load:

V = (Vsupply – 9V)/0.020 A Transmitter Operating Temp:

-40 to 85°C (-40 to 185°F)

Output Connection: 2-wire shielded cable [3 m (10') included] Response Time: 120 ms

(0 to 63% FS)

To Order

Model No.	Description
SPRTX-(*)1	RTD connector-transmitter, range: -99 to 208°C (-146 to 406°F)
SPRTX-(*)2	RTD connector-transmitter, range: 2 to 569°C (36 to 1056°F)
STCTX-(**)	Thermocouple connector-transmitter, with universal connector
* Insert "M" for miniature RTD connector or "S" for standard-size RTD connector.	

** Add range, J1, J2, K1, K2, K3, T1 or T2.

Accessories

Model No.	Description
TX2-100	2-conductor shielded cables, 30 m (100')
PSR-24S	Regulated power supply, 24 Vdc, 400 mA, screw terminal
PSR-24L	Regulated power supply, 24 Vdc, 400 mA, UL, stripped leads
PSR-24L-230	Regulated power supply, 2stripped leads, 230 Vac input, CE
CAL-3	NIST-traceable calibration with data
CAL-3-SYSTEM	CAL-3 calibration with probe

Each connector-transmitter comes fully assembled, complete with connector, built-in transmitter and 3 m (10') of cable.

Note: The SPRTX and STCTX Series are not for use in medical or nuclear applications, nor in flammable or explosive environments.

Ordering Example: SPRTX-S2, RTD standard size connector-transmitter with high temperature range, PSR-24L power supply.



STCTX Series

Interfaces with Standard 4 to 20 mA Instrumentation Model DPi8 shown smaller than actual size, visit OMEGA for details.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Omega manufacturer:

Other Similar products are found below :

DPG409-100DWU OM-DAQXL-1-NA CASS-116U-12 DH-1-20-J-12 GG-J-24-SLE-1000 HPC-AU-P HPC-IR-P JMQSS-062U-6 KHSS-18G-RSC-12 KHXL-18G-RSC-12 KMQIN-125U-6 KMQXL-125G-12 KMQXL-125U-6 KQSS-18G-6 KQXL-14U-36 KQXL-18G-12 KQXL-18U-12 NB1-CAXL-14U-12 NB3-CAXL-14U-18 P-M-1/10-1/4-6-0-P-3 PX309-015A5V PX309-1KGI PX309-10KGV PX309-100AI PX309-100AV PX309-100GI PX309-100GV PX309-3KG5V PX319-V050G5V PX319-005AI PX319-050A5V PX319-050GI PX319-10KGI PX319-100GV PX319-2KGI PX319-200AV PX319-200A5V PX319-300G5V PX319-5KG5V PX319-500G5V PX319-7.5KGI PX319-7.5KG5V PX329-1KG5V PX329-10KGI PX329-2KGI PX409-015DWUI PX409-015VUSBH PX409-015VV PX409-050A5V PX409-10WDWU5V