

| | |
|---|--------------------|
| THNx4-CAN | |
| 4 WAYS DIGITAL THERMOCOUPLE CONDITIONER FOR CAN BUS | |
| Ref : | |
| SN : | Software version : |

Texys sensors are designed for data recording. If the user wants to include this sensor in a close loop system or active control, he must assume all responsibility.

| | | |
|---------------------|---|-------|
| Range | From -20 to +120 To 0 to +1250 | °C |
| Type | K, J, T, ... | |
| Accuracy | ±0.5 | °C |
| Cold junction error | ±0.5 | °C |
| Sampling frequency | 5 | Hz |
| CAN bus 2.0B | 120Ω : <input type="checkbox"/> yes <input type="checkbox"/> no | |
| Output data | Calibrated temperature: 2 bytes per channel (signed int) | |
| Resolution | 0.1 | °/bit |
| Parameters | Identifiers, Baud rate, Frequency, Degrees | |
| Baud rate | 125k to 1Mbps | |
| Frequency | 1Hz, 5Hz, 10Hz, request mode | |
| Calibrator | Calog Temperature | |
| Supply Voltage | 5 to 16 | V |
| Supply Current | 15 | mA |
| Dimension | 81x33x11 | mm |
| Material | Aluminum | |
| Weight | 30 | g |
| Protection | IP53 | |
| Vibration test | 20Gpp5' | |
| Shock | 500 | G |
| Operating Temp | -20 to +125 | °C |
| Storage Temp | -40 to + 125 | °C |

| Sensor Readings | | |
|-----------------|-----|--------|
| Target | 0°C | 200 °C |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

| Identifiers (Hexa) | | |
|--------------------|--|--|
| Rx | | |
| Tx | | |
| Parameters | | |

Cable :

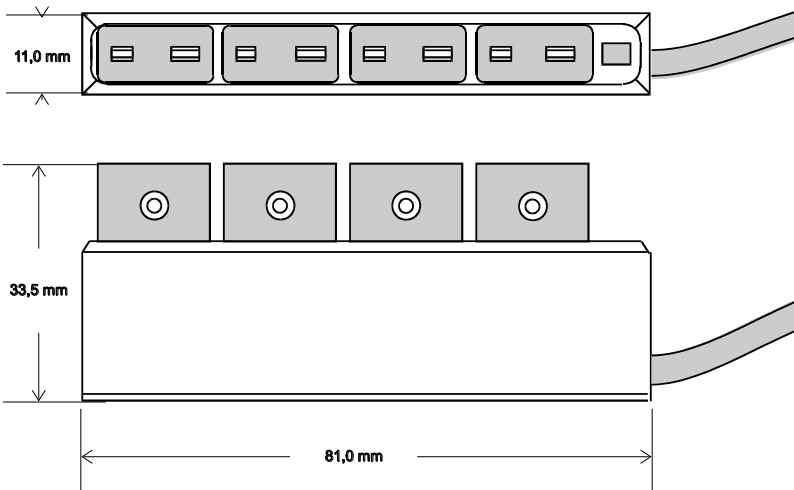
4x26AWG FEP tinned copper braided cable 250V 200°C

EPD116760A

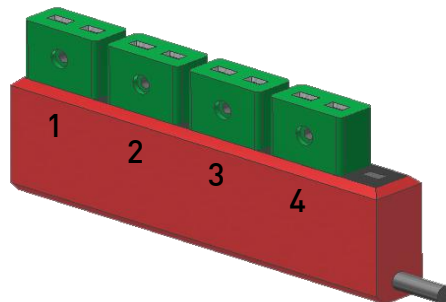
Length: 1000 mm Tubing:

Connector:

| Color | Function | Pin |
|---------------|----------|-----|
| Red | Supply | |
| Black | 0V | |
| Green or Blue | Can High | |
| White | Can Low | |
| Braid | | |



| | |
|----------------------------|------|
| Ordering ref | |
| THNx4 - CAN - Type - Range | |
| K | 400 |
| J | 1250 |
| ex : THNx4-CAN-K-200 | |



Data output

(default Tx Frame ID: 0x3F0)

| ID | Byte 0 | Byte 1 | Byte 2 | Byte 3 | Byte 4 | Byte 5 | Byte 6 | Byte 7 |
|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|-----------------|-----------------|
| 0x3F0 | Channel1 MSB | Channel1 LSB | Channel2 MSB | Channel2 LSB | Channel3 MSB | Channel3 LSB | Channel4 MSB | Channel4 LSB |
| Resolution: 0.1°/bit | | Resolution: 0.1°/bit | | Resolution: 0.1°/bit | | Resolution: 0.1°/bit | | |

Changing parameters

The device parameters can be modified using the CAN protocol Texsys.

CAN parameters:

| N° | Parameter | Raw values | values | Comments | |
|------|--------------------|------------|---------------|----------------------------|---------|
| 0x00 | Baudrate | 0x00 | 1000 Kbps | default | |
| | | 0x01 | 500 Kbps | | |
| | | 0x02 | 250 Kbps | | |
| | | 0x03 | 125 Kbps | | |
| 0x01 | Emission frequency | 0x00 | Rx frame trig | Request mode - 10Hz max. | |
| | | 0x01 | 1 Hz | | |
| | | 0x02 | 5 Hz | default | |
| | | 0x03 | 10 Hz | | |
| 0x02 | Rx frame ID | 0 to 0x07 | 0 to 0x7F0 | MSB of triggering frame ID | Default |
| 0x03 | | 0 to 0xF0 | | LSB of triggering frame ID | 7F0 |
| 0x04 | Tx frame ID | 0 to 0x07 | 0 to 0x7F0 | MSB of data frame ID | Default |
| 0x05 | | 0 to 0xF0 | | LSB of data frame ID | 3F0 |

Sensor parameters:

| | | | | |
|------|--------|---|------------|-------------------------------|
| 0x08 | Degree | 0 | Fahrenheit | 1/10 Fahrenheit degree |
| | | 1 | Celsius | 1/10 Celsius degree (default) |

For complete information, contact us at info@texense.com