

TECHNICAL REFERENCE MANUAL

DSI ADAPTERS V25-3



2.3.1. Features of DSI adapters:

- **EXTEND ANALOG INPUTS:** DSI adapters are compatible with any Dewesoft amplifier with a DSUB-9 analog input, independent of the product family. They will fit SIRIUS DAQ system, KRYPTON DAQ modules, IOLITE DAQ and Control System, MINITAURS or DEWE-43 DAQ instrument.
- **PLUG-AND-PLAY WITH TEDS:** All DSI adapters have a TEDS chip built-in for automatic sensor detection and plug-and-play setup. Just connect the sensor to the DSI adapter and DSI adapter to one of our DSUB-9 analog inputs and everything from scaling, units, calibration data, etc. will be configured automatically.
- **COMPACT AND RUGGED:** All electronics are built into small and rugged DSUB-9 aluminum housing with screw connectors to firmly screw adapters to the analog input channel.



Hint

When isolation is required, you must use the DSI-adapters on isolated DewesoftX® devices: e.g. Sirius modules.

All DSI-adapters are the size of a DSUB-9 housing, which contains the electronics as well as the sensor connector. The miniature electronics of each DSI sensor also contain a TEDS chip in which the identification, calibration and configuration data of the DSI are stored. TEDS data are read automatically by the DewesoftX® software and are immediately applied to the channel setup.



Hint

When using DSI® adapters, DewesoftX® can read the TEDS information of the adapter and also the TEDS information of any sensors that are connected to the adapter (the old MSI adapters could not read the TEDS of the connected sensor).

*The Bridge Completion Adapters are available in a separate [technical reference manual](#).

2.4. DSI: General Specifications

Connectors	
DAQ interface connector	DB9 Male
Sensor connector	See individual adapter specification
Environmental	
Operating Temperature	-10 to 60 °C
Storage Temperature	-40 to 85 °C
Humidity	5 to 95 % RH non-condensing at 50 °C
IP rating	IP50
RFI susceptibility	±0.5 % span error at 400 MHz, 5 W, 3 m
Shock & Vibration	Vibration sweep sinus (EN 60068-2-6:2008) Vibration random (EN 60721-3-2: 1997 - Class 2M2) Shock (EN 60068-2-27:2009) MIL-STD-810D

2.4.1. Calibration

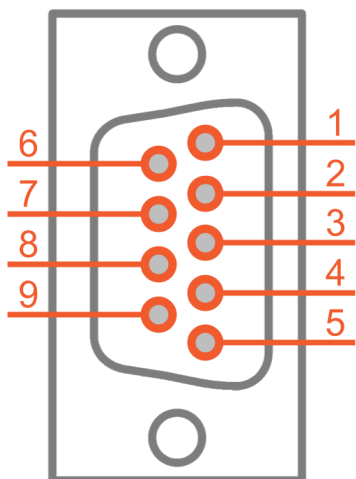
The DSI-adapters are calibrated at 23 °C ± 3 °C and meet their specifications when leaving the factory. The time interval for calibration depends on environmental conditions. A two year calibration interval is recommended.



Important

Total measurement accuracy depends on the adapter accuracy and host amplifier accuracy!

2.4.2. DSI: Pin-out



DSI connector: pin-out (DSUB-9 male)

Pin	Name	Description
1	Exc +	Excitation +
2	In+	Input +
3	Sns-	Sense -
4	GND	Ground
5	N.C.	Not connected
6	Sns+	Sense +
7	In-	Input -
8	Exc-	Excitation -
9	TEDS	TEDS

2.4.3. Environmental



Warning

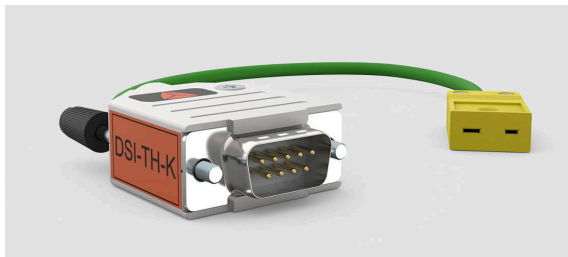
All DSI® specifications within this manual are valid at 25 °C.
All DSI-adapters are produced according to ISO 9001 and ISO 14001.

2.4.4. DSI adapters / TEDS sensor support

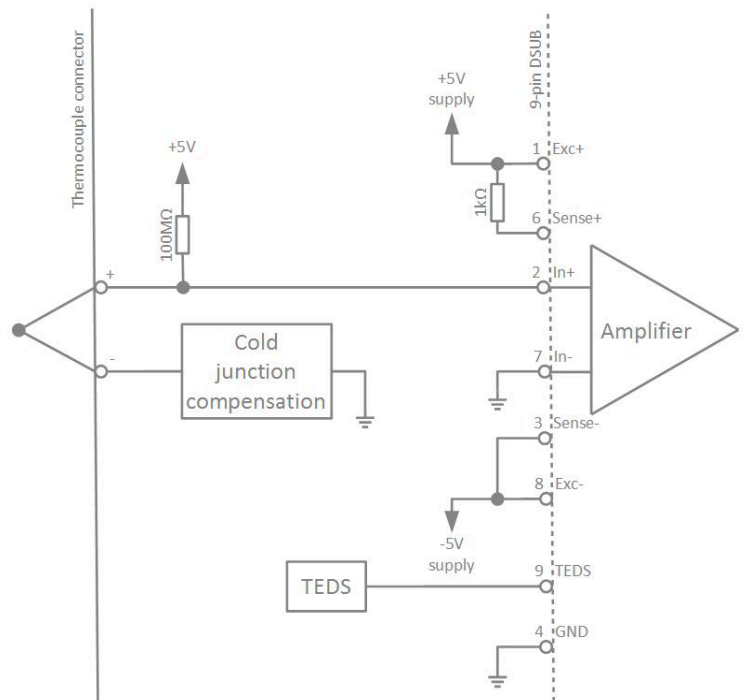
Since there is an inbuilt TEDS device in the adapter itself and if ☒ DSI adapters/TEDS sensors under hardware setup are selected, adapter will be recognised and proper EXC. Voltage will be set automatically.

Please check if you are using the latest software where LVDT Adapter is supported.

2.5. DSI-TH-x



DSI-TH-K



Basic circuit design of DSI-TH-x

The DSI-TH-x allows thermocouple temperature measurement with Dewesoft devices. The common thermocouple types K, J, T and E are supported. A high precision cold junction compensation is included in the adapter. The non-linearity of the thermocouple is compensated for in software.

A TEDS chip provides automatic adapter identification by software and the calibration data. In operation with the isolated SIRIUSi modules you will get a fully isolated thermocouple amplifier.



Note

In operation with the differential SIRIUS® modules (or Krypton® / DEWE-43, IOLITE) only isolated thermocouples should be used, because the thermocouple input is single-ended.

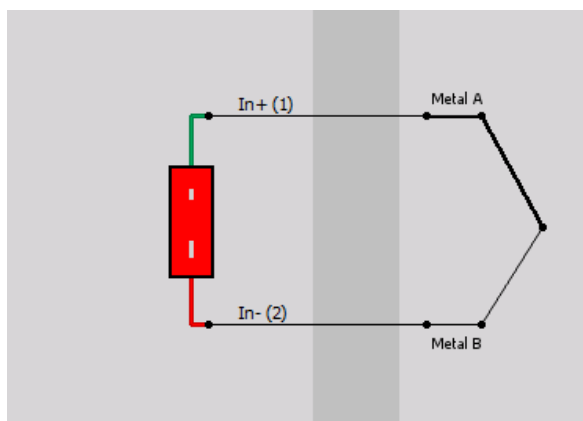
2.5.1. DSI-TH-x Specifications

General specifications	
Sensor connector	Mini thermocouple, female
Thermocouple Types	DSI-TH-K: Type K DSI-TH-J: Type J DSI-TH-T: Type T DSI-TH-E: Type E
Cold junction compensation	Integrated
CJC accuracy	1.0 °C
Input impedance	> 10 MΩ
BIAS current	50 nA
Open TC detection	✓
Linearisation	Through software according to the sensor type
TEDS	For adapter identification and calibration data

Measurement hardware	SIRIUSi LVv2 SIRIUSi HD STGS SIRIUSi STGv2	KRYPTONi STG SIRIUSi XHS-LV IOLITE STG	SIRIUSi STGMv3 MINITAURs	DEWE-43A SIRIUSi HD-LV	SIRIUSi HS-LVv2	SIRIUSi HS-STG	SIRIUSi MULTI
DSI-TH-K for thermocouple type K (DIN EN 60584-1)							
Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)					
-200 to 1370 °C	-200 to -100 °C	±1.8 [±7.4] °C	±4.8 [±8.6] °C	±2.4 [±7.4] °C	±4.3 [±7.4] °C	±1.4 [±8.6] °C	±1.4 [±4.2] °C ±2.4 [±13.6] °C
	-100 to 0 °C	±1.4 [±4.3] °C	±3.0 [±4.9] °C	±1.7 [±4.3] °C	±2.7 [±4.3] °C	±1.2 [±4.9] °C	±1.2 [±2.6] °C ±1.7 [±7.5] °C
	0 to 200 °C	±1.3 [±3.5] °C	±2.5 [±4.0] °C	±1.5 [±3.5] °C	±2.3 [±3.5] °C	±1.1 [±4.0] °C	±1.1 [±2.3] °C ±1.5 [±6.0] °C
	200 to 1000 °C	±1.8 [±4.1] °C	±2.9 [±4.4] °C	±2.0 [±4.1] °C	±2.8 [±4.1] °C	±1.4 [±4.4] °C	±1.4 [±2.6] °C ±2.0 [±6.7] °C
	1000 to 1370 °C	±2.0 [±4.6] °C	±3.2 [±4.9] °C	±2.3 [±4.6] °C	±3.2 [±4.6] °C	±1.6 [±4.9] °C	±1.6 [±2.9] °C ±2.3 [±7.5] °C
DSI-TH-J for thermocouple type J (DIN EN 60584-1)							
Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)					
-200 to 1200 °C	-200 to -100 °C	±1.6 [±5.5] °C	±3.7 [±6.3] °C	±2.0 [±5.5] °C	±3.3 [±5.5] °C	±1.3 [±6.3] °C	±1.3 [±3.3] °C ±2.0 [±9.8] °C
	-100 to 0 °C	±1.3 [±3.4] °C	±2.5 [±3.9] °C	±1.5 [±3.4] °C	±2.3 [±3.4] °C	±1.2 [±3.9] °C	±1.2 [±2.2] °C ±1.5 [±5.8] °C
	0 to 500 °C	±1.4 [±3.0] °C	±2.2 [±3.3] °C	±1.6 [±3.0] °C	±2.1 [±3.0] °C	±1.2 [±3.3] °C	±1.2 [±2.0] °C ±1.6 [±4.8] °C
	500 to 1000 °C	±1.7 [±3.2] °C	±2.3 [±3.3] °C	±1.8 [±3.2] °C	±2.3 [±3.2] °C	±1.4 [±3.3] °C	±1.4 [±2.1] °C ±1.8 [±4.9] °C
	1000 to 1200 °C	±1.8 [±3.4] °C	±2.4 [±3.5] °C	±2.0 [±3.4] °C	±2.5 [±3.4] °C	±1.5 [±3.5] °C	±1.5 [±2.2] °C ±2.0 [±5.1] °C

DSI-TH-T for thermocouple type T (DIN EN 60584-1)								
Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)						
-270 to 400 °C	-250 to -200 °C	±2.7 [±14.7] °C	±9.2 [±17.2] °C	±4.1 [±14.7] °C	±8.1 [±14.7] °C	±1.9 [±17.2] °C	±1.9 [±7.9] °C	±4.1 [±28.1] °C
	-200 to -100 °C	±1.8 [±7.3] °C	±4.8 [±8.4] °C	±2.4 [±7.3] °C	±4.2 [±7.3] °C	±1.4 [±8.4] °C	±1.4 [±4.2] °C	±2.4 [±13.4] °C
	-100 to 0 °C	±1.4 [±4.5] °C	±3.1 [±5.2] °C	±1.7 [±4.5] °C	±2.8 [±4.5] °C	±1.2 [±5.2] °C	±1.2 [±2.8] °C	±1.7 [±8.0] °C
	0 to 200 °C	±1.3 [±3.6] °C	±2.5 [±4.1] °C	±1.5 [±3.6] °C	±2.3 [±3.6] °C	±1.1 [±4.1] °C	±1.1 [±2.3] °C	±1.5 [±6.1] °C
	200 to 400 °C	±1.3 [±3.0] °C	±2.2 [±3.3] °C	±1.5 [±3.0] °C	±2.0 [±3.0] °C	±1.1 [±3.3] °C	±1.1 [±2.0] °C	±1.5 [±4.8] °C
DSI-TH-E for thermocouple type E (DIN EN 60584-1)								
Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)						
-270 to 1000 °C	-250 to -200 °C	±2.3 [±10.2] °C	±6.5 [±11.8] °C	±3.2 [±10.2] °C	±5.8 [±10.2] °C	±1.7 [±11.8] °C	±1.7 [±5.6] °C	±3.2 [±19.0] °C
	-200 to -100 °C	±1.5 [±5.0] °C	±3.4 [±5.6] °C	±1.9 [±5.0] °C	±3.1 [±5.0] °C	±1.3 [±5.6] °C	±1.3 [±3.0] °C	±1.9 [±8.7] °C
	-100 to 0 °C	±1.3 [±3.2] °C	±2.3 [±3.6] °C	±1.5 [±3.2] °C	±2.1 [±3.2] °C	±1.1 [±3.6] °C	±1.1 [±2.1] °C	±1.5 [±5.4] °C
	0 to 500 °C	±1.3 [±2.4] °C	±1.9 [±2.6] °C	±1.4 [±2.4] °C	±1.8 [±2.4] °C	±1.2 [±2.6] °C	±1.2 [±1.7] °C	±1.4 [±3.7] °C
	500 to 1000 °C	±1.6 [±2.8] °C	±2.1 [±2.9] °C	±1.8 [±2.8] °C	±2.2 [±2.8] °C	±1.4 [±2.9] °C	±1.4 [±2.0] °C	±1.8 [±4.2] °C
1) Typical accuracy... when you balance the offset on the amplifier; Maximum accuracy ... when the amplifier is not balanced								

2.5.2. DSI-TH Input Connection



2.6. DSI-TH-UNI

DSI-TH-UNI adapter has universal thermocouple input allowing it to connect practically any type of thermocouple (K, J, T, R, S, N, E, B, C).

DSI-TH-UNI has integrated cold junction compensation with CJC accuracy of 0.5 °C.

Universal thermocouple DSI adapter comes in an attractive compact chassis mounted directly on the host amplifier without any additional cable.

Host amplifier configuration and calibration coefficients can be read via TEDS.



DSI-TH-UNI



Note

In operation with the differential SIRIUS® modules (or Krypton® / DEWE-43, IOLITE) only isolated thermocouples should be used, because the thermocouple input is single-ended.

2.6.1. DSI-TH-UNI Specifications

General specifications	
Sensor connector	Mini thermocouple, female
Thermocouple Types	K, J, T, R, S, N, E, B, C*
Cold junction compensation	Integrated
CJC accuracy	0.5 °C
Input impedance	> 10 MΩ
BIAS current	50 nA
Bandwidth	up to 150 Hz (limited by bandwidth of host amplifier)
Open TC detection	✓
Linearisation	Through software according to the sensor type
TEDS	For adapter identification and calibration data
Dimensions	52 x 31 x 15 mm (61 x 31 x 15 mm with screws)
Weight	40 g
*In case the Type C is not supported, the adapter should be sent to Dewesoft to do a firmware upgrade. The full range (up to 2320°C) is available with DewesoftX 2025.1 and later versions	

	Measurement hardware	SIRIUSI LW2 SIRIUSI HD STGS SIRIUSI STGv2 SIRIUSI STGS	KRYPTONI STG SIRIUSI XHS-LV IOLITE STG	SIRIUSI STGMv3 MINITAURe	DEWE-43A SIRIUSI HD-LV	SIRIUSI HS-LVv2	SIRIUSI HS-STG	SIRIUSI MULTI
DSI-TH- for thermocouple type K (DIN EN 60584-1)								
Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)						
-200 to 1370 °C	-200 to -100 °C	±1.3 [±6.9] °C	±4.3 [±8.1] °C	±1.9 [±6.9] °C	±3.8 [±6.9] °C	±0.9 [±8.1] °C	±0.9 [±3.7] °C	±1.9 [±13.1] °C
	-100 to 0 °C	±0.9 [±3.8] °C	±2.5 [±4.4] °C	±1.2 [±3.8] °C	±2.2 [±3.8] °C	±0.7 [±4.4] °C	±0.7 [±2.1] °C	±1.2 [±7.0] °C
	0 to 200 °C	±0.8 [±3.0] °C	±2.0 [±3.5] °C	±1.0 [±3.0] °C	±1.8 [±3.0] °C	±0.6 [±3.5] °C	±0.6 [±1.8] °C	±1.0 [±5.5] °C
	200 to 1000 °C	±1.3 [±3.6] °C	±2.4 [±3.9] °C	±1.5 [±3.6] °C	±2.3 [±3.6] °C	±0.9 [±3.9] °C	±0.9 [±2.1] °C	±1.5 [±6.2] °C
	1000 to 1370 °C	±1.5 [±4.1] °C	±2.7 [±4.4] °C	±1.8 [±4.1] °C	±2.7 [±4.1] °C	±1.1 [±4.4] °C	±1.1 [±2.4] °C	±1.8 [±7.0] °C
DSI-TH- for thermocouple type J (DIN EN 60584-1)								
Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)						
-200 to 1200 °C	-200 to -100 °C	±1.1 [±5.0] °C	±3.2 [±5.8] °C	±1.5 [±5.0] °C	±2.8 [±5.0] °C	±0.8 [±5.8] °C	±0.8 [±2.8] °C	±1.5 [±9.3] °C
	-100 to 0 °C	±0.8 [±2.9] °C	±2.0 [±3.4] °C	±1.0 [±2.9] °C	±1.8 [±2.9] °C	±0.7 [±3.4] °C	±0.7 [±1.7] °C	±1.0 [±5.3] °C
	0 to 500 °C	±0.9 [±2.5] °C	±1.7 [±2.8] °C	±1.1 [±2.5] °C	±1.6 [±2.5] °C	±0.7 [±2.8] °C	±0.7 [±1.5] °C	±1.1 [±4.3] °C
	500 to 1000 °C	±1.2 [±2.7] °C	±1.8 [±2.8] °C	±1.3 [±2.7] °C	±1.8 [±2.7] °C	±0.9 [±2.8] °C	±0.9 [±1.6] °C	±1.3 [±4.4] °C
	1000 to 1200 °C	±1.3 [±2.9] °C	±1.9 [±3.0] °C	±1.5 [±2.9] °C	±2.0 [±2.9] °C	±1.0 [±3.0] °C	±1.0 [±1.7] °C	±1.5 [±4.6] °C
DSI-TH- for thermocouple type T (DIN EN 60584-1)								
Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)						
-270 to 400 °C	-250 to -200 °C	±2.2 [±14.2] °C	±8.7 [±16.7] °C	±3.6 [±14.2] °C	±7.6 [±14.2] °C	±1.4 [±16.7] °C	±1.4 [±7.4] °C	±3.6 [±27.6] °C
	-200 to -100 °C	±1.3 [±6.8] °C	±4.3 [±7.9] °C	±1.9 [±6.8] °C	±3.7 [±6.8] °C	±0.9 [±7.9] °C	±0.9 [±3.7] °C	±1.9 [±12.9] °C
	-100 to 0 °C	±0.9 [±4.0] °C	±2.6 [±4.7] °C	±1.2 [±4.0] °C	±2.3 [±4.0] °C	±0.7 [±4.7] °C	±0.7 [±2.3] °C	±1.2 [±7.5] °C
	0 to 200 °C	±0.8 [±3.1] °C	±2.0 [±3.6] °C	±1.0 [±3.1] °C	±1.8 [±3.1] °C	±0.6 [±3.6] °C	±0.6 [±1.8] °C	±1.0 [±5.6] °C
	200 to 400 °C	±0.8 [±2.5] °C	±1.7 [±2.8] °C	±1.0 [±2.5] °C	±1.5 [±2.5] °C	±0.6 [±2.8] °C	±0.6 [±1.5] °C	±1.0 [±4.3] °C
DSI-TH- for thermocouple type R (DIN EN 60584-1)								
Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)						
	0 to 100 °C	±2.4 [±19.0] °C	±11.6 [±22.7] °C	±4.2 [±19.0] °C	±9.8 [±19.0] °C	±1.4 [±22.7] °C	±1.4 [±9.8] °C	±4.2 [±37.5] °C
	100 to 200 °C	±1.9 [±13.7] °C	±8.4 [±16.3] °C	±3.2 [±13.7] °C	±7.1 [±13.7] °C	±1.2 [±16.3] °C	±1.2 [±7.1] °C	±3.2 [±26.9] °C

-50 to 1768 °C

	200 to 500 °C	±1.7 [±11.8] °C	±7.3 [±14.0] °C	±2.8 [±11.8] °C	±6.2 [±11.8] °C	±1.1 [±14.0] °C	±1.1 [±6.2] °C	±2.8 [±23.1] °C
	500 to 1000 °C	±1.6 [±9.9] °C	±6.1 [±11.6] °C	±2.5 [±9.9] °C	±5.3 [±9.9] °C	±1.1 [±11.6] °C	±1.1 [±5.2] °C	±2.5 [±19.1] °C
	1000 to 1500 °C	±1.7 [±8.5] °C	±5.3 [±9.8] °C	±2.4 [±8.5] °C	±4.7 [±8.5] °C	±1.1 [±9.8] °C	±1.1 [±4.5] °C	±2.4 [±16.0] °C
	1500 to 1768 °C	±2.0 [±8.7] °C	±5.4 [±9.9] °C	±2.7 [±8.7] °C	±5.0 [±8.7] °C	±1.3 [±9.9] °C	±1.3 [±4.7] °C	±2.7 [±16.2] °C

DSI-TH- for thermocouple type S (DIN EN 60584-1)

Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)						
	0 to 100 °C	±2.3 [±18.7] °C	±11.4 [±22.3] °C	±4.1 [±18.7] °C	±9.6 [±18.7] °C	±1.4 [±22.3] °C	±1.4 [±9.6] °C	±4.1 [±36.9] °C
	100 to 200 °C	±1.9 [±14.1] °C	±8.6 [±16.7] °C	±3.2 [±14.1] °C	±7.3 [±14.1] °C	±1.2 [±16.7] °C	±1.2 [±7.3] °C	±3.2 [±27.6] °C
	200 to 500 °C	±1.8 [±12.3] °C	±7.6 [±14.7] °C	±2.9 [±12.3] °C	±6.5 [±12.3] °C	±1.1 [±14.7] °C	±1.1 [±6.4] °C	±2.9 [±24.1] °C
	500 to 1000 °C	±1.7 [±10.8] °C	±6.7 [±12.7] °C	±2.7 [±10.8] °C	±5.8 [±10.8] °C	±1.1 [±12.7] °C	±1.1 [±5.7] °C	±2.7 [±20.9] °C
	1000 to 1500 °C	±1.9 [±9.4] °C	±5.8 [±10.8] °C	±2.7 [±9.4] °C	±5.2 [±9.4] °C	±1.3 [±10.8] °C	±1.3 [±5.0] °C	±2.7 [±17.6] °C
-50 to 1768 °C	1500 to 1768 °C	±2.2 [±10.1] °C	±6.2 [±11.5] °C	±3.0 [±10.1] °C	±5.7 [±10.1] °C	±1.4 [±11.5] °C	±1.4 [±5.4] °C	±3.0 [±18.8] °C

DSI-TH- for thermocouple type N (DIN EN 60584-1)

Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)						
	-250 to -200 °C	±3.9 [±28.9] °C	±17.5 [±34.2] °C	±6.7 [±28.9] °C	±15.0 [±28.9] °C	±2.2 [±34.2] °C	±2.2 [±14.7] °C	±6.7 [±56.7] °C
	-200 to -100 °C	±1.6 [±10.1] °C	±6.3 [±11.9] °C	±2.6 [±10.1] °C	±5.4 [±10.1] °C	±1.1 [±11.9] °C	±1.1 [±5.3] °C	±2.6 [±19.6] °C
	-100 to 0 °C	±1.0 [±5.2] °C	±3.3 [±6.1] °C	±1.5 [±5.2] °C	±2.9 [±5.2] °C	±0.8 [±6.1] °C	±0.8 [±2.9] °C	±1.5 [±9.9] °C
	0 to 500 °C	±0.9 [±4.3] °C	±2.8 [±5.1] °C	±1.3 [±4.3] °C	±2.4 [±4.3] °C	±0.7 [±5.1] °C	±0.7 [±2.4] °C	±1.3 [±8.2] °C
	500 to 1000 °C	±1.2 [±3.5] °C	±2.3 [±3.8] °C	±1.4 [±3.5] °C	±2.2 [±3.5] °C	±0.9 [±3.8] °C	±0.9 [±2.0] °C	±1.4 [±6.0] °C
-270 to 1300 °C	1000 to 1300 °C	±1.4 [±3.9] °C	±2.5 [±4.2] °C	±1.7 [±3.9] °C	±2.5 [±3.9] °C	±1.0 [±4.2] °C	±1.0 [±2.3] °C	±1.7 [±6.6] °C

DSI-TH- for thermocouple type E (DIN EN 60584-1)

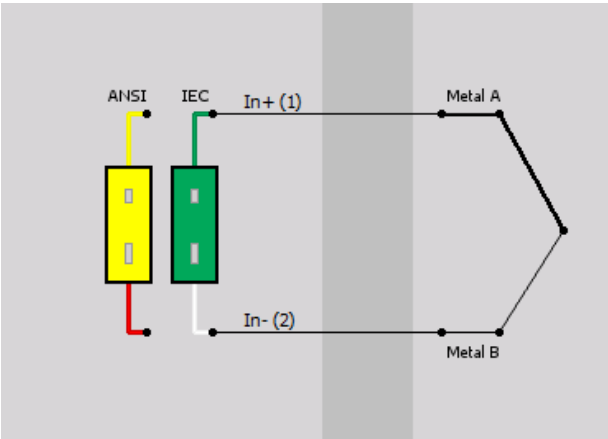
Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)						
	-250 to -200 °C	±1.8 [±9.7] °C	±6.0 [±11.3] °C	±2.7 [±9.7] °C	±5.3 [±9.7] °C	±1.2 [±11.3] °C	±1.2 [±5.1] °C	±2.7 [±18.5] °C
	-200 to -100 °C	±1.0 [±4.5] °C	±2.9 [±5.1] °C	±1.4 [±4.5] °C	±2.6 [±4.5] °C	±0.8 [±5.1] °C	±0.8 [±2.5] °C	±1.4 [±8.2] °C
	-100 to 0 °C	±0.8 [±2.7] °C	±1.8 [±3.1] °C	±1.0 [±2.7] °C	±1.6 [±2.7] °C	±0.6 [±3.1] °C	±0.6 [±1.6] °C	±1.0 [±4.9] °C
	0 to 500 °C	±0.8 [±1.9] °C	±1.4 [±2.1] °C	±0.9 [±1.9] °C	±1.3 [±1.9] °C	±0.7 [±2.1] °C	±0.7 [±1.2] °C	±0.9 [±3.2] °C

-270 to 1000 °C

	500 to 1000 °C	±1.1 [±2.3] °C	±1.6 [±2.4] °C	±1.3 [±2.3] °C	±1.7 [±2.3] °C	±0.9 [±2.4] °C	±0.9 [±1.5] °C	±1.3 [±3.7] °C
DSI-TH- for thermocouple type B (DIN EN 60584-1)								
Input Range	Actual reading	Typical accuracy [maximum accuracy] (see 1)						
0 to 1820 °C	200 to 500 °C	±5.3 [±48.2] °C	±29.1 [±57.7] °C	±10.1 [±48.2] °C	±24.4 [±48.2] °C	±2.9 [±57.7] °C	±2.9 [±24.3] °C	±10.1 [±95.8] °C
	500 to 1000 °C	±2.6 [±20.2] °C	±12.3 [±24.1] °C	±4.5 [±20.2] °C	±10.4 [±20.2] °C	±1.6 [±24.1] °C	±1.6 [±10.4] °C	±4.5 [±39.8] °C
	1000 to 1500 °C	±1.8 [±11.6] °C	±7.2 [±13.7] °C	±2.9 [±11.6] °C	±6.2 [±11.6] °C	±1.2 [±13.7] °C	±1.2 [±6.1] °C	±2.9 [±22.5] °C
	1500 to 1700 °C	±1.8 [±9.6] °C	±5.9 [±11.1] °C	±2.7 [±9.6] °C	±5.2 [±9.6] °C	±1.2 [±11.1] °C	±1.2 [±5.1] °C	±2.7 [±18.2] °C
	1700 to 1820 °C	±2.0 [±9.8] °C	±6.1 [±11.3] °C	±2.8 [±9.8] °C	±5.4 [±9.8] °C	±1.3 [±11.3] °C	±1.3 [±5.2] °C	±2.8 [±18.5] °C

1) Typical accuracy... when you balance the offset on the amplifier; Maximum accuracy ... when the amplifier is not balanced

2.6.2. DSI-TH-UNI Input Connection



Wiring diagram for K-type thermocouple