

Lab. No.: 3281

Basic Info

Organization : CHAMPIONTECH TECHNOLOGY CO.,LTD

Laboratory : CPT Calibration Center

Lab. Address : No.216,Tuku 1st Rd.,Nanzi Dist.,Kaohsiung City
811032,Taiwan R.O.C

Accreditation Criteria : ISO/IEC 17025: 2017; CNS 17025: 2018

Accreditation Number : 3281

Originally Accredited : April 19, 2017

Effective Period : June 12, 2026 to June 11, 2029

Accredited Scope : Calibration Field, see described in the Appendix

Accreditation Number : 3281
 Laboratory Head : LIN, Chih-Ching

Temperature/Humidity

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KE1002 platinum resistance thermometer /resistance temperature detector /thermistors	Platinum resistance thermometer Fluke/5609	In-house method: Resistance Thermometer Calibration Procedure (Document No.: CPT-CP-001)	-20	°C	0	°C	RTD	0.034	°C
			>0	°C	60	°C	RTD	0.033	°C
			>60	°C	100	°C	RTD	0.041	°C
			>100	°C	150	°C	RTD	0.041	°C
			>150	°C	200	°C	RTD	0.19	°C
			>200	°C	250	°C	RTD	0.19	°C
			>250	°C	300	°C	RTD	0.22	°C
Approval Signatory: LIN, Chih-Ching									
KE1004 Thermocouple	Platinum resistance thermometer Fluke/5609 (-20 °C to 300 °C) Thermocouple thermometer Championtech /W-005 (100 °C to 1200 °C)	In-house method: Thermocouple Thermometer Calibration Procedure (Document No.: CPT-CP-002)	0	°C	60	°C	R type	0.17	°C
			>60	°C	100	°C	R type	0.17	°C
			>100	°C	150	°C	R type	0.15	°C
			>150	°C	200	°C	R type	0.12	°C
			>200	°C	300	°C	R type	0.14	°C
			>300	°C	500	°C	R type	1.1	°C
			>500	°C	900	°C	R type	1.3	°C
			>900	°C	1000	°C	R type	1.3	°C
			>1000	°C	1100	°C	R type	2.5	°C
			>1100	°C	1200	°C	R type	2.5	°C
			0	°C	60	°C	S type	0.17	°C
			>60	°C	100	°C	S type	0.16	°C
			>100	°C	150	°C	S type	0.16	°C
			>150	°C	200	°C	S type	0.12	°C
>200	°C	300	°C	S type	0.14	°C			



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KE1004 Thermocouple	Platinum resistance thermometer Fluke/5609 (-20 °C to 300 °C) Thermocouple thermometer Championtech /W-005 (100 °C to 1200 °C)	In-house method: Thermocouple Thermometer Calibration Procedure (Document No.: CPT-CP-002)	>300	°C	500	°C	S type	1.1	°C
			>500	°C	900	°C	S type	1.3	°C
			>900	°C	1000	°C	S type	1.3	°C
			>1000	°C	1100	°C	S type	2.5	°C
			>1100	°C	1200	°C	S type	2.5	°C
			-20	°C	0	°C	K type	0.050	°C
			>0	°C	60	°C	K type	0.043	°C
			>60	°C	100	°C	K type	0.053	°C
			>100	°C	150	°C	K type	0.053	°C
			>150	°C	200	°C	K type	0.16	°C
			>200	°C	300	°C	K type	0.16	°C
			>300	°C	500	°C	K type	1.1	°C
			>500	°C	900	°C	K type	1.3	°C
			>900	°C	1000	°C	K type	1.3	°C
			>1000	°C	1100	°C	K type	2.5	°C
			>1100	°C	1200	°C	K type	2.5	°C
			-20	°C	0	°C	N type	0.050	°C
			>0	°C	60	°C	N type	0.043	°C
			>60	°C	100	°C	N type	0.053	°C
			>100	°C	150	°C	N type	0.053	°C
			>150	°C	200	°C	N type	0.17	°C
			>200	°C	300	°C	N type	0.17	°C
			>300	°C	500	°C	N type	1.1	°C
			>500	°C	900	°C	N type	1.3	°C
			>900	°C	1000	°C	N type	1.3	°C
			>1000	°C	1100	°C	N type	2.5	°C
>1100	°C	1200	°C	N type	2.5	°C			
-20	°C	0	°C	J type	0.050	°C			
>0	°C	60	°C	J type	0.043	°C			
>60	°C	100	°C	J type	0.053	°C			
>100	°C	150	°C	J type	0.053	°C			



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KE1004 Thermocouple	Platinum resistance thermometer Fluke/5609 (-20 °C to 300 °C) Thermocouple thermometer Championtech /W-005 (100 °C to 1200 °C)	In-house method: Thermocouple Thermometer Calibration Procedure (Document No.: CPT-CP-002)	>150	°C	200	°C	J type	0.17	°C
			>200	°C	300	°C	J type	0.17	°C
			>300	°C	500	°C	J type	1.1	°C
			>500	°C	900	°C	J type	1.3	°C
			>900	°C	1000	°C	J type	1.3	°C
			-20	°C	0	°C	E type	0.050	°C
			>0	°C	60	°C	E type	0.043	°C
			>60	°C	100	°C	E type	0.053	°C
			>100	°C	150	°C	E type	0.053	°C
			>150	°C	200	°C	E type	0.17	°C
			>200	°C	300	°C	E type	0.17	°C
			>300	°C	500	°C	E type	1.1	°C
			>500	°C	900	°C	E type	1.3	°C
			>900	°C	1000	°C	E type	1.3	°C
			200	°C	300	°C	B type	0.25	°C
			>300	°C	500	°C	B type	1.1	°C
			>500	°C	900	°C	B type	1.3	°C
			>900	°C	1000	°C	B type	1.3	°C
			>1000	°C	1100	°C	B type	2.5	°C
			>1100	°C	1200	°C	B type	2.5	°C
			-20	°C	0	°C	T type	0.050	°C
			>0	°C	60	°C	T type	0.043	°C
			>60	°C	100	°C	T type	0.053	°C
>100	°C	150	°C	T type	0.053	°C			
>150	°C	200	°C	T type	0.17	°C			
>200	°C	300	°C	T type	0.17	°C			
Approval Signatory: LIN, Chih-Ching									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KE1005 Thermocouple thermometer	Platinum resistance thermometer Fluke/5609 (-20 °C to 300 °C) Thermocouple thermometer Championtech /W-005 (100 °C to 1200 °C)	In-house method: Thermocouple Thermometer Calibration Procedure (Document No.: CPT-CP-002)	0	°C	60	°C	R type	0.17	°C
			>60	°C	100	°C	R type	0.17	°C
			>100	°C	150	°C	R type	0.15	°C
			>150	°C	200	°C	R type	0.12	°C
			>200	°C	300	°C	R type	0.14	°C
			>300	°C	500	°C	R type	1.1	°C
			>500	°C	900	°C	R type	1.3	°C
			>900	°C	1000	°C	R type	1.3	°C
			>1000	°C	1100	°C	R type	2.5	°C
			>1100	°C	1200	°C	R type	2.5	°C
			0	°C	60	°C	S type	0.17	°C
			>60	°C	100	°C	S type	0.16	°C
			>100	°C	150	°C	S type	0.16	°C
			>150	°C	200	°C	S type	0.12	°C
			>200	°C	300	°C	S type	0.14	°C
			>300	°C	500	°C	S type	1.1	°C
			>500	°C	900	°C	S type	1.3	°C
			>900	°C	1000	°C	S type	1.3	°C
			>1000	°C	1100	°C	S type	2.5	°C
			>1100	°C	1200	°C	S type	2.5	°C
			-20	°C	0	°C	K type	0.050	°C
			>0	°C	60	°C	K type	0.043	°C
			>60	°C	100	°C	K type	0.053	°C
			>100	°C	150	°C	K type	0.053	°C
			>150	°C	200	°C	K type	0.16	°C
			>200	°C	300	°C	K type	0.16	°C
			>300	°C	500	°C	K type	1.1	°C
			>500	°C	900	°C	K type	1.3	°C
			>900	°C	1000	°C	K type	1.3	°C
			>1000	°C	1100	°C	K type	2.5	°C
>1100	°C	1200	°C	K type	2.5	°C			



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KE1005 Thermocouple thermometer	Platinum resistance thermometer Fluke/5609 (-20 °C to 300 °C) Thermocouple thermometer Championtech /W-005 (100 °C to 1200 °C)	In-house method: Thermocouple Thermometer Calibration Procedure (Document No.: CPT-CP-002)	-20	°C	0	°C	N type	0.050	°C
			>0	°C	60	°C	N type	0.043	°C
			>60	°C	100	°C	N type	0.053	°C
			>100	°C	150	°C	N type	0.053	°C
			>150	°C	200	°C	N type	0.17	°C
			>200	°C	300	°C	N type	0.17	°C
			>300	°C	500	°C	N type	1.1	°C
			>500	°C	900	°C	N type	1.3	°C
			>900	°C	1000	°C	N type	1.3	°C
			>1000	°C	1100	°C	N type	2.5	°C
			>1100	°C	1200	°C	N type	2.5	°C
			-20	°C	0	°C	J type	0.050	°C
			>0	°C	60	°C	J type	0.043	°C
			>60	°C	100	°C	J type	0.053	°C
			>100	°C	150	°C	J type	0.053	°C
			>150	°C	200	°C	J type	0.17	°C
			>200	°C	300	°C	J type	0.17	°C
			>300	°C	500	°C	J type	1.1	°C
			>500	°C	900	°C	J type	1.3	°C
			>900	°C	1000	°C	J type	1.3	°C
			-20	°C	0	°C	E type	0.050	°C
			>0	°C	60	°C	E type	0.043	°C
			>60	°C	100	°C	E type	0.053	°C
			>100	°C	150	°C	E type	0.053	°C
			>150	°C	200	°C	E type	0.17	°C
			>200	°C	300	°C	E type	0.17	°C
			>300	°C	500	°C	E type	1.1	°C
			>500	°C	900	°C	E type	1.3	°C
>900	°C	1000	°C	E type	1.3	°C			
200	°C	300	°C	B type	0.25	°C			
>300	°C	500	°C	B type	1.1	°C			



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KE1005 Thermocouple thermometer	Platinum resistance thermometer Fluke/5609 (-20 °C to 300 °C) Thermocouple thermometer Championtech /W-005 (100 °C to 1200 °C)	In-house method: Thermocouple Thermometer Calibration Procedure (Document No.: CPT-CP-002)	>500	°C	900	°C	B type	1.3	°C
			>900	°C	1000	°C	B type	1.3	°C
			>1000	°C	1100	°C	B type	2.5	°C
			>1100	°C	1200	°C	B type	2.5	°C
			-20	°C	0	°C	T type	0.050	°C
			>0	°C	60	°C	T type	0.043	°C
			>60	°C	100	°C	T type	0.053	°C
			>100	°C	150	°C	T type	0.053	°C
			>150	°C	200	°C	T type	0.17	°C
>200	°C	300	°C	T type	0.17	°C			
Approval Signatory: LIN, Chih-Ching									

Note: Smallest uncertainty represents an expanded uncertainty using a coverage factor approximately 95 % level of confidence.
(Null Below)

