

TERMOCOPPIA SINGOLA GUAINA CERAMICA CON TESTA DI CONNESSIONE TIPO "D" THERMOCOUPLE WITH SINGLE CERAMIC SHEATH "D" TYPE CONNECTING HEAD

TIPO DI TERMOCOPPIA THERMOCOUPLE TYPE

"K" (Ni Cr - Ni)	2
"N" (Nicrosil - Nisil)	3

TIPO ELEMENTO ELEMENT TYPE

1	SINGOLO ELEMENTO (2 FILI ϕ 3.26) SINGLE ELEMENT (2 WIRES ϕ 3.26)
2	DOPPIO ELEMENTO (4 FILI ϕ 2.30) DOUBLE ELEMENT (4 WIRES ϕ 2.30)

LUNGHEZZA (L1) LENGTH (L1)

	L1 = mm.
02	100 mm.
03	150 mm.
04	200 mm.
05	250 mm.
06	300 mm.
07	350 mm.
08	400 mm.
09	450 mm.
10	500 mm.
11	550 mm.
12	600 mm.
13	650 mm.
14	700 mm.
15	750 mm.
16	800 mm.
17	850 mm.
18	900 mm.
19	950 mm.
20	1000 mm.
21	1050 mm.
22	1100 mm.
23	1150 mm.
24	1200 mm.
25	1250 mm.
26	1300 mm.
27	1350 mm.
28	1400 mm.
29	1450 mm.
30	1500 mm.
31	1550 mm.
32	1600 mm.
33	1650 mm.
34	1700 mm.
35	1750 mm.
36	1800 mm.
37	1850 mm.
38	1900 mm.
39	1950 mm.
40	2000 mm.
41	2050 mm.
42	2100 mm.
43	2150 mm.
44	2200 mm.
45	2250 mm.
46	2300 mm.
47	2350 mm.
48	2400 mm.
49	2450 mm.
50	2500 mm.

GUAINE DI PROTEZIONE PROTECTING SHEATHS

Guaina esterna Outside sheath (A)	Isolatori Insulator (I)	
CERAMICA 610 CERAMIC 610	CERAMICA 610 CERAMIC 610	09
CERAMICA 799 CERAMIC 799	CERAMICA 610 CERAMIC 610	11

Cod. 2 2 . 0 . 0 0

TEMPERATURE MASSIME DI LAVORO CONSIGLIATE (°C) ADVISED MAX. OPERATING TEMPERATURES (°C)

TIPO DI TERMOCOPPIA THERMOCOUPLE TYPE	USO CONTINUO (°C) CONTINUOUS USE (°C)		USO INTERMITTENTE (°C) INTERMITTENT USE (°C)	
	ϕ 2.30	ϕ 3.26	ϕ 2.30	ϕ 3.26
"K"	950	1050	1100	1150
"N"	1100	1150	1200	1250

OPZIONE CANOTTO (D) ROD OPTION

C 2 0 0

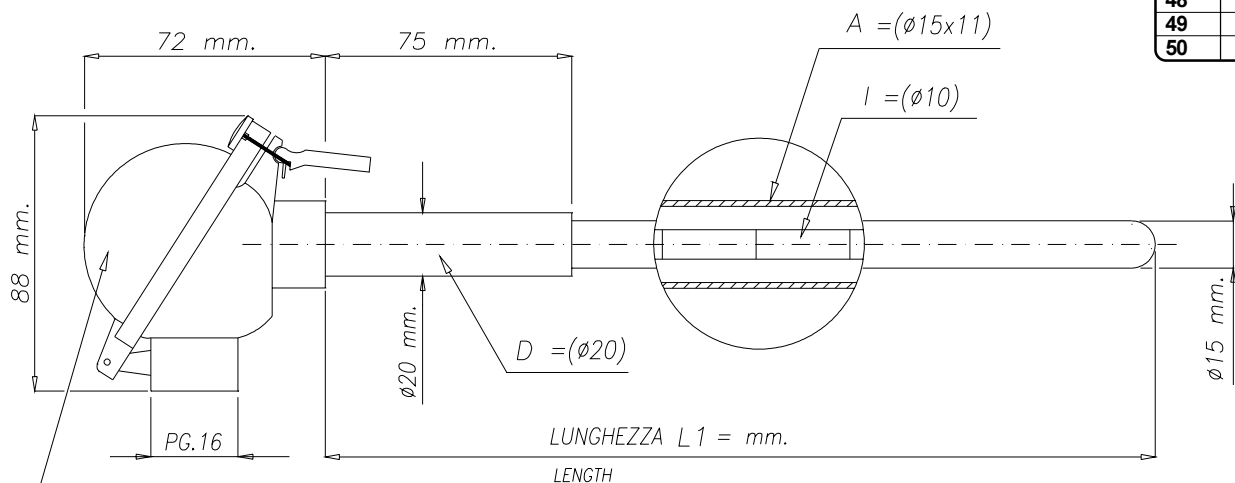
MATERIALE CANOTTO ROD MATERIAL

A	ACCIAIO AL CARBONIO ZINCATO GALVANIZED CARBON STEEL
I	ACCIAIO INOX AISI 310 STAINLESS STEEL AISI 310

075	L = 75 mm.
100	L = 100 mm.
150	L = 150 mm.
200	L = 200 mm.
250	L = 250 mm.
300	L = 300 mm.

IL CANOTTO STANDARD E' PROPOSTO CON LUNGHEZZA 75 mm. IN ACCIAIO AL CARBONIO ZINCATO.
PER ALTRE LUNGHEZZE O MATERIALI DIVERSI, ORDINARE LA TERMOCOPPIA CON AGGIUNTA DELLA OPZIONE SOPRA INDICATA.

STANDARD ROD : GALVANIZED CARBON STEEL, LENGTH 75 mm.
PLEASE ORDER THE THERMOCOUPLE ADDING THE ABOVE MENTIONED OPTION IN CASE OF DIFFERENT MATERIAL OR LENGTH.



TESTA DI CONNESSIONE IN ALLUMINIO
PRESSOFUSO CON APERTURA RAPIDA

DIE-CAST ALUMINIUM HEAD
WITH FAST OPENING

SPORGENZA INTERNA MINIMO 40 mm.
INSIDE PROJECTION MIN. 40 mm.
SPORGENZA INTERNA IN MONTAGGIO ORIZZONTALE MAX. 180 mm.
INSIDE PROJECTION WITH HORIZONTAL ASSEMBLY MAX. 180 mm.

Tolleranze secondo norme IEC 584.2 cl.2 (+/- 2.5°C oppure +/- 0.75%) (vale il maggiore tra i due valori).
Tolerances according to IEC 584.2 cl.2 (+/- 2.5°C or +/- 0.75%) (the highest value applies).

TERMOCOPPIA SINGOLA GUAINA CERAMICA CON TESTA DI CONNESSIONE TIPO "D" THERMOCOUPLE WITH SINGLE CERAMIC SHEATH "D" TYPE CONNECTING HEAD

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"K" (Ni Cr - Ni)	2
"N" (Nicrosil - Nisil)	3

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2	DOPPIO ELEMENTO (4 FILI ø2.30) DOUBLE ELEMENT (4 WIRES ø2.30)

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Guaina esterna Outside sheath (A)	Isolatori Insulator (I)	
CERAMICA 610 CERAMIC 610	CERAMICA 610 CERAMIC 610	09
CERAMICA 799 CERAMIC 799	CERAMICA 610 CERAMIC 610	11

Cod. 2 2 . 0 . 0 0

ATTENZIONE



ATTENTION

A RICHIESTA SONO DISPONIBILI LUNGHEZZE O MATERIALI DEL CANOTTO DIVERSI DALLO STANDARD.

DIFFERENT ROD LENGTHS OR ROD MATERIALS AVAILABLE ON REQUEST.

TEMPERATURE MASSIME DI LAVORO CONSIGLIATE (°C) ADVISED MAX. OPERATING TEMPERATURES (°C)

TIPO DI TERMOCOPPIA THERMOCOUPLE TYPE	USO CONTINUO (°C) CONTINUOUS USE (°C)		USO INTERMITTENTE (°C) INTERMITTENT USE (°C)	
	ø2.30	ø3.26	ø2.30	ø3.26
"K"	950	1000	1100	1150
"N"	1000	1100	1150	1250

SPORGENZA INTERNA IN MONTAGGIO ORIZZONTALE MIN. 40 mm. - MAX. 180 mm.
INSIDE PROJECTION WITH HORIZONTAL ASSEMBLY MIN. 40 mm. - MAX. 180 mm.

SOSTITUITA

Tolleranze secondo norme IEC 584.2 cl.2 (+/- 2.5°C oppure +/- 0.75%) (vale il maggiore tra i due valori).
Tolerances according to IEC 584.2 cl.2 (+/- 2.5°C or +/- 0.75%) (the highest value applies).

CALIBRATION TABLE FOR THERMOCOUPLES TYPE J (Iron / Copper-Nickel) ACCORDING TO IEC 584-1
TABELLA DI CALIBRAZIONE PER TERMOCOPPIE TIPO J (Ferro / Rame-Nickel) SECONDO NORMATIVA IEC 584-1

Thermometric voltage in absolute mV - Reference junction at 0°C

	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-140	-6,159	-6,194	-6,229	-6,263	-6,298	-6,332	-6,366	-6,400	-6,433	-6,467
-130	-5,801	-5,838	-5,874	-5,910	-5,946	-5,982	-6,018	-6,054	-6,089	-6,124
-120	-5,426	-5,465	-5,503	-5,541	-5,578	-5,616	-5,653	-5,690	-5,727	-5,764
-110	-5,037	-5,076	-5,116	-5,155	-5,194	-5,233	-5,272	-5,311	-5,350	-5,388
-100	-4,633	-4,674	-4,714	-4,755	-4,796	-4,836	-4,877	-4,917	-4,957	-4,997
-90	-4,215	-4,257	-4,300	-4,342	-4,384	-4,425	-4,467	-4,509	-4,550	-4,591
-80	-3,786	-3,829	-3,872	-3,916	-3,959	-4,002	-4,045	-4,088	-4,130	-4,173
-70	-3,344	-3,389	-3,434	-3,478	-3,522	-3,566	-3,610	-3,654	-3,698	-3,742
-60	-2,893	-2,938	-2,984	-3,029	-3,075	-3,120	-3,165	-3,210	-3,255	-3,300
-50	-2,431	-2,478	-2,524	-2,571	-2,617	-2,663	-2,709	-2,755	-2,801	-2,847
-40	-1,961	-2,008	-2,055	-2,103	-2,150	-2,197	-2,244	-2,291	-2,338	-2,385
-30	-1,482	-1,530	-1,578	-1,626	-1,674	-1,722	-1,770	-1,818	-1,865	-1,913
-20	-0,995	-1,044	-1,093	-1,142	-1,190	-1,239	-1,288	-1,336	-1,385	-1,433
-10	-0,501	-0,550	-0,600	-0,650	-0,699	-0,749	-0,798	-0,847	-0,896	-0,946
0	0,000	-0,050	-0,101	-0,151	-0,201	-0,251	-0,301	-0,351	-0,401	-0,451

Thermometric voltage in absolute mV - Reference junction at 0°C

	0	1	2	3	4	5	6	7	8	9
500	27,393	27,449	27,505	27,561	27,617	27,673	27,729	27,785	27,841	27,897
510	27,953	28,010	28,066	28,122	28,178	28,234	28,291	28,347	28,403	28,460
520	28,516	28,572	28,629	28,685	28,741	28,798	28,854	28,911	28,967	29,024
530	29,080	29,137	29,194	29,250	29,307	29,363	29,420	29,477	29,534	29,590
540	29,647	29,704	29,761	29,818	29,874	29,931	29,988	30,045	30,102	30,159
550	30,216	30,273	30,330	30,387	30,444	30,502	30,559	30,616	30,673	30,730
560	30,788	30,845	30,902	30,960	31,017	31,074	31,132	31,189	31,247	31,304
570	31,362	31,419	31,477	31,535	31,592	31,650	31,708	31,766	31,823	31,881
580	31,939	31,997	32,055	32,113	32,171	32,229	32,287	32,345	32,403	32,461
590	32,519	32,577	32,636	32,694	32,752	32,810	32,869	32,927	32,985	33,044
600	33,102	33,161	33,219	33,278	33,337	33,395	33,454	33,513	33,571	33,630
610	33,689	33,748	33,807	33,866	33,925	33,984	34,043	34,102	34,161	34,220
620	34,279	34,338	34,397	34,457	34,516	34,575	34,635	34,694	34,754	34,813
630	34,873	34,932	34,992	35,051	35,111	35,171	35,230	35,290	35,350	35,410
640	35,470	35,530	35,590	35,650	35,710	35,770	35,830	35,890	35,950	36,010
650	36,071	36,131	36,191	36,252	36,312	36,373	36,433	36,494	36,554	36,615
660	36,675	36,736	36,797	36,858	36,918	36,979	37,040	37,101	37,162	37,223
670	37,284	37,345	37,406	37,467	37,528	37,590	37,651	37,712	37,773	37,835
680	37,896	37,958	38,019	38,081	38,142	38,204	38,265	38,327	38,389	38,450
690	38,512	38,574	38,636	38,698	38,760	38,822	38,884	38,946	39,008	39,070
700	39,132	39,194	39,256	39,318	39,381	39,443	39,505	39,568	39,630	39,693
710	39,755	39,818	39,880	39,943	40,005	40,068	40,131	40,193	40,256	40,319
720	40,382	40,445	40,508	40,570	40,633	40,696	40,759	40,822	40,886	40,949
730	41,012	41,075	41,138	41,201	41,265	41,328	41,391	41,455	41,518	41,581
740	41,645	41,708	41,772	41,835	41,899	41,962	42,026	42,090	42,153	42,217
750	42,281	42,344	42,408	42,472	42,536	42,599	42,663	42,727	42,791	42,855
760	42,919	42,983	43,047	43,111	43,175	43,239	43,303	43,367	43,431	43,495
770	43,559	43,624	43,688	43,752	43,817	43,881	43,945	44,010	44,074	44,139
780	44,203	44,267	44,332	44,396	44,461	44,525	44,590	44,655	44,719	44,784
790	44,848	44,913	44,977	45,042	45,107	45,171	45,236	45,301	45,365	45,430

	0	1	2	3	4	5	6	7	8	9
0	0,000	0,050	0,101	0,151	0,202	0,253	0,303	0,354	0,405	0,456
10	0,507	0,558	0,609	0,660	0,711	0,762	0,814	0,865	0,916	0,968
20	1,019	1,071	1,122	1,174	1,226	1,277	1,329	1,381	1,433	1,485
30	1,537	1,589	1,641	1,693	1,745	1,797	1,849	1,902	1,954	2,006
40	2,059	2,111	2,164	2,216	2,269	2,322	2,374	2,427	2,480	2,532
50	2,585	2,638	2,691	2,744	2,797	2,850	2,903	2,956	3,009	3,062
60	3,116	3,169	3,222	3,275	3,329	3,382	3,436	3,489	3,543	3,596
70	3,650	3,703	3,757	3,810	3,864	3,917	4,025	4,079	4,133	4,187
80	4,187	4,240	4,294	4,348	4,402	4,456	4,510	4,564	4,618	4,672
90	4,726	4,781	4,835	4,889	4,943	4,997	5,052	5,106	5,160	5,215
100	5,269	5,323	5,378	5,432	5,487	5,541	5,595	5,650	5,705	5,759
110	5,814	5,868	5,923	5,977	6,032	6,087	6,141	6,196	6,251	6,306
120	6,360	6,415	6,470	6,525	6,579	6,634	6,689	6,744	6,799	6,854
130	6,909	6,964	7,019	7,074	7,129	7,184	7,239	7,294	7,349	7,404
140	7,459	7,514	7,569	7,624	7,679	7,734	7,789	7,844	7,900	7,955
150	8,010	8,065	8,120	8,175	8,231	8,286	8,341	8,396	8,452	8,507
160	8,562	8,618	8,673	8,728	8,783	8,839	8,894	8,949	9,005	9,060
170	9,115	9,171	9,226	9,282	9,337	9,392	9,448	9,503	9,559	9,614
180	9,669	9,725	9,780	9,836	9,891	9,947	10,002	10,057	10,113	10,168
190	10,224	10,279	10,335	10,390	10,446	10,501	10,557	10,612	10,668	10,723
200	10,779	10,834	10,890	10,945	11,001	11,056	11,112	11,167	11,223	11,278
210	11,334	11,389	11,445	11,501	11,556	11,612	11,667	11,723	11,778	11,834
220	11,889	11,945	12,000	12,056	12,111	12,167	12,222	12,278	12,334	12,389
230	12,445	12,500	12,556	12,611	12,667	12,722	12,778	12,833	12,889	12,944
240	13,000	13,056	13,111	13,167	13,222	13,278	13,333	13,389	13,444	13,500
250	13,555	13,611	13,666	13,722	13,777	13,833	13,888	13,944	13,999	14,055
260	14,110	14,166	14,221	14,277	14,332	14,388	14,443	14,499	14,554	14,609
270	14,665	14,720	14,776	14,831	14,887	14,942	14,998	15,053	15,109	15,164
280	15,219	15,275	15,330	15,386	15,441	15,496	15,552	15,607	15,663	15,718
290	15,773	15,829	15,884	15,940	15,995	16,050	16,106	16,161	16,216	16,272
300	16,327	16,383	16,438	16,493	16,549	16,604	16,659	16,715	16,770	16,825
310	16,881	16,936	16,991	17,046	17,102	17,157	17,212	17,268	17,323	17,378
320	17,434	17,489	17,544	17,599	17,655	17,710	17,765	17,820	17,876	17,931
330	17,986	18,041	18,097	18,152	18,207	18,262	18,318	18,373	18,428	18,483
340	18,538	18,594	18,649	18,704	18,759	18,814	18,870	18,925	18,980	19,035
350	19,090	19,146	19,201	19,256	19,311	19,366	19,422	19,477	19,532	19,587
360	19,642	19,697	19,753	19,808	19,863	19,918	19,973	20,028	20,083	20,139
370	20,194	20,249	20,304	20,359	20,414	20,469	20,525	20,580	20,635	20,690
380	20,745	20,800	20,855	20,911	20,966	21,021	21,076	21,131	21,186	21,241
390	21,297	21,352	21,407	21,462	21,517	21,572	21,627	21,683	21,738	21,793
400	21,848	21,903	21,958	22,014	22,069	22,124	22,179	22,234	22,289	22,345
410	22,400	22,455	22,510	22,565	22,620	22,676	22,731	22,786	22,841	22,896
420	22,952	23,007	23,062	23,117	23,172	23,228	23,283	23,338	23,393	23,449
430	23,504	23,559	23,614	23,670	23,725	23,780	23,835	23,891	23,946	24,001
440	24,057	24,112	24,167	24,223	24,278	24,333	24,389	24,444	24,499	24,555
450	24,610	24,665	24,721	24,776	24,832	24,887	24,943	24,998	25,053	25,109
460	25,164	25,220	25,275	25,331	25,386	25,442	25,497	25,553	25,608	25,664
470	25,720	25,775	25,831	25,886	25,942	25,998	26,053	26,109	26,165	26,220
480	26,276	26,332	26,387	26,443	26,499	26,555	26,610	26,666	26,722	26,778
490	26,834	26,889	26,945	27,001	27,057	27,113	27,169	27,225	27,281	27,337

CALIBRATION TABLE FOR THERMOCOUPLES TYPE K (Nickel-Chromium / Nickel-Aluminium) ACCORDING TO IEC 584-1
TABELLA DI CALIBRAZIONE PER TERMOCOPPIE TIPO K (Nickel-Chromo / Nickel-Aluminio) SECONDO NORMATIVA IEC 584-1

Thermometric voltage in absolute mV - Reference junction at 0°C

	0	1	2	3	4	5	6	7	8	9
0	0,000	0,039	0,079	0,119	0,158	0,198	0,238	0,277	0,317	0,357
10	0,397	0,437	0,477	0,517	0,557	0,597	0,637	0,677	0,718	0,758
20	0,798	0,838	0,879	0,919	0,960	1,000	1,041	1,081	1,122	1,163
30	1,203	1,244	1,285	1,326	1,366	1,407	1,448	1,489	1,530	1,571
40	1,612	1,653	1,694	1,735	1,776	1,817	1,858	1,899	1,941	1,982
50	2,023	2,064	2,106	2,147	2,188	2,230	2,271	2,312	2,354	2,395
60	2,436	2,478	2,519	2,561	2,602	2,644	2,685	2,727	2,768	2,810
70	2,851	2,893	2,934	2,976	3,017	3,059	3,100	3,142	3,184	3,225
80	3,267	3,308	3,350	3,391	3,433	3,474	3,516	3,557	3,599	3,640
90	3,682	3,723	3,765	3,806	3,848	3,889	3,931	3,972	4,013	4,055
100	4,096	4,138	4,179	4,220	4,262	4,303	4,344	4,385	4,427	4,468
110	4,509	4,550	4,591	4,633	4,674	4,715	4,756	4,797	4,838	4,879
120	4,920	4,961	5,002	5,043	5,084	5,124	5,165	5,206	5,247	5,288
130	5,328	5,369	5,410	5,450	5,491	5,532	5,572	5,613	5,653	5,694
140	5,735	5,775	5,815	5,856	5,896	5,937	5,977	6,017	6,058	6,098
150	6,138	6,179	6,219	6,259	6,299	6,339	6,380	6,420	6,460	6,500
160	6,540	6,580	6,620	6,660	6,701	6,741	6,781	6,821	6,861	6,901
170	6,941	6,981	7,021	7,060	7,100	7,140	7,180	7,220	7,260	7,300
180	7,340	7,380	7,420	7,460	7,500	7,540	7,579	7,619	7,659	7,699
190	7,739	7,779	7,819	7,859	7,899	7,939	7,979	8,019	8,059	8,099
200	8,138	8,178	8,218	8,258	8,298	8,338	8,378	8,418	8,458	8,499
210	8,539	8,579	8,619	8,659	8,699	8,739	8,779	8,819	8,860	8,900
220	8,940	8,980	9,020	9,061	9,101	9,141	9,181	9,222	9,262	9,302
230	9,343	9,383	9,423	9,464	9,504	9,545	9,585	9,626	9,666	9,707
240	9,747	9,788	9,828	9,869	9,909	9,950	9,991	10,031	10,072	10,113
250	10,153	10,194	10,235	10,276	10,316	10,357	10,398	10,439	10,480	10,520
260	10,561	10,602	10,643	10,684	10,725	10,766	10,807	10,848	10,889	10,930
270	10,971	11,012	11,053	11,094	11,135	11,176	11,217	11,259	11,300	11,341
280	11,382	11,423	11,465	11,506	11,547	11,588	11,630	11,671	11,712	11,753
290	11,795	11,836	11,877	11,919	11,960	12,001	12,043	12,084	12,126	12,167
300	12,209	12,250	12,291	12,333	12,374	12,416	12,457	12,499	12,540	12,582
310	12,624	12,665	12,707	12,748	12,790	12,831	12,873	12,915	12,956	12,998
320	13,040	13,081	13,123	13,165	13,206	13,248	13,290	13,331	13,373	13,415
330	13,457	13,498	13,540	13,582	13,624	13,665	13,707	13,749	13,791	13,833
340	13,874	13,916	13,958	14,000	14,042	14,084	14,126	14,167	14,209	14,251
350	14,293	14,335	14,377	14,419	14,461	14,503	14,545	14,587	14,629	14,671
360	14,713	14,755	14,797	14,839	14,881	14,923	14,965	15,007	15,049	15,091
370	15,133	15,175	15,217	15,259	15,301	15,343	15,385	15,427	15,469	15,511
380	15,554	15,596	15,638	15,680	15,722	15,764	15,806	15,849	15,891	15,933
390	15,975	16,017	16,059	16,102	16,144	16,186	16,228	16,270	16,313	16,355
400	16,397	16,439	16,482	16,524	16,566	16,608	16,651	16,693	16,735	16,778
410	16,820	16,862	16,904	16,947	16,989	17,031	17,074	17,116	17,158	17,201
420	17,243	17,285	17,328	17,370	17,413	17,455	17,497	17,540	17,582	17,624
430	17,667	17,709	17,752	17,794	17,837	17,879	17,921	17,964	18,006	18,049
440	18,091	18,134	18,176	18,218	18,261	18,303	18,346	18,388	18,431	18,473
450	18,516	18,558	18,601	18,643	18,686	18,728	18,771	18,813	18,856	18,898
460	18,941	18,983	19,026	19,068	19,111	19,154	19,196	19,239	19,281	19,324
470	19,366	19,409	19,451	19,494	19,537	19,579	19,622	19,664	19,707	19,750
480	19,792	19,835	19,877	19,920	19,962	20,005	20,048	20,090	20,133	20,175
490	20,218	20,261	20,303	20,346	20,389	20,431	20,474	20,516	20,559	20,602
500	20,644	20,687	20,730	20,772	20,815	20,857	20,900	20,943	20,985	21,028
510	21,071	21,113	21,156	21,199	21,241	21,284	21,326	21,369	21,412	21,454
520	21,497	21,540	21,582	21,625	21,668	21,710	21,753	21,796	21,838	21,881
530	21,924	21,966	22,009	22,052	22,094	22,137	22,179	22,222	22,265	22,307
540	22,350	22,393	22,435	22,478	22,521	22,563	22,606	22,649	22,691	22,734
550	22,776	22,819	22,862	22,904	22,947	22,990	23,032	23,075	23,117	23,160
560	23,203	23,245	23,288	23,331	23,373	23,416	23,458	23,501	23,544	23,586
570	23,629	23,671	23,714	23,757	23,799	23,842	23,884	23,927	23,970	24,012
580	24,055	24,097	24,140	24,182	24,225	24,267	24,310	24,353	24,395	24,438
590	24,480	24,523	24,565	24,608	24,650	24,693	24,735	24,778	24,820	24,863
600	24,905	24,948	24,990	25,033	25,075	25,118	25,160	25,203	25,245	25,288
610	25,330	25,373	25,415	25,458	25,500	25,543	25,585	25,627	25,670	25,712
620	25,755	25,797	25,840	25,882	25,924	25,967	26,009	26,052	26,094	26,136
630	26,179	26,221	26,263	26,306	26,348	26,390	26,433	26,475	26,517	26,560
640	26,602	26,644	26,687	26,729	26,771	26,814	26,856	26,898	26,940	26,983

Thermometric voltage in absolute mV - Reference junction at 0°C

	0	1	2	3	4	5	6	7	8	9
650	27,025	27,067	27,109	27,152	27,194	27,236	27,278	27,320	27,363	27,405
660	27,447	27,489	27,531	27,574	27,616	27,658	27,700	27,742	27,784	27,826
670	27,869	27,911	27,953	27,995	28,037	28,079	28,121	28,163	28,205	28,247
680	28,289	28,332	28,374	28,416	28,458	28,500	28,542	28,584	28,626	28,668
690	28,710	28,752	28,794	28,835	28,877	28,919	28,961	29,003	29,045	29,087
700	29,129	29,171	29,213	29,255	29,297	29,338	29,380	29,422	29,464	29,506
710	29,548	29,590	29,631	29,673	29,715	29,757	29,798	29,840	29,882	29,924
720	29,965	30,007	30,049	30,090	30,132	30,174	30,216	30,257	30,299	30,341
730	30,382	30,424	30,466	30,507	30,549	30,590	30,632	30,674	30,715	30,757
740	30,798	30,840	30,881	30,923	30,964	31,006	31,047	31,089	31,130	31,172
750	31,213	31,255	31,296	31,338	31,379	31,421	31,462	31,504	31,545	31,586
760	31,628	31,669	31,710	31,752	31,793	31,834	31,876	31,917	31,958	32,000
770	32,041	32,082	32,124	32,165	32,206	32,247	32,289	32,330	32,371	32,412
780	32,453	32,495	32,536	32,577	32,618	32,659	32,700	32,742	32,783	32,824
790	32,865	32,906	32,947	32,988	33,029	33,070	33,111	33,152	33,193	33,234
800	33,275	33,316	33,357	33,398	33,439	33,480	33,521	33,562	33,603	33,644
810	33,685	33,726	33,767	33,808	33,849	33,890	33,931	33,971	34,012	34,053
820	34,093	34,134	34,175	34,216	34,257	34,297	34,338	34,379	34,420	34,460
830	34,501	34,542	34,582	34,623	34,664	34,704	34,745	34,786	34,826	34,867
840	34,908	34,948	34,989	35,029	35,070	35,110	35,151	35,192	35,232	35,273
850	35,313	35,354	35,394	35,435	35,475	35,516	35,556	35,596	35,637	35,677
860	35,718	35,758	35,798	35,839	35,879	35,920	35,960	36,000	36,041	36,081
870	36,121	36,162	36,202	36,242	36,282	36,323	36,363	36,403	36,443	36,484
880	36,524	36,564	36,604	36,644	36,685	36,725	36,765	36,805	36,845	36,885
890	36,925	36,965	37,006	37,046	37,086	37,126	37,166	37,206	37,246	37,286
900	37,326	37,366	37,406	37,446	37,486	37,526	37,566	37,606	37,646	37,686
910	37,725	37,765	37,805	37,845	37,885	37,925	37,965	38,005	38,044	38,084
920	38,124	38,164	38,204	38,243	38,283	38,323	38,363	38,402	38,442	38,482
930	38,522	38,561	38,601	38,641	38,680	38,720	38,760	38,799	38,839	38,878
940	38,918	38,958	38,997	39,037	39,076	39,116	39,155	39,195	39,235	39,274
950	39,314	39,353	39,393	39,432	39,471	39,511	39,550	39,590	39,629	39,669
960	39,708	39,747	39,787	39,826	39,866	39,905	39,944	39,984	40,023	40,062
970	40,101	40,141	40,180	40,219	40,259	40,298	40,337	40,376	40,415	40,455
980	40,494	40,533	40,572	40,611	40,651	40,690	40,729	40,768		