

KDI ST-100 桌上型溫度線點焊機

特色 簡易操作型, 平價機種, 適合需要常常作熱電偶溫度線的測溫端點焊(把 2 條測溫線焊成一測溫點)

應用場所: 公司研發部, 品管部, 大學系所實驗室, 工廠技術部門, ... 等

規格:

工作原理: 電容充放電型, 焊接方法: 電極短路式

可點焊各式熱電偶測溫線線徑(K, T, E, R, S, J, B, N): 0.08 ϕ mm~1.0 ϕ mm:

輸入電源: AC 110V/220V, 50/60Hz, 輸出功率: AC 0~25W

體積: 27W*21.3H*9.2Dcm, 重量: 2.7Kg

附配件: 腳踏開關, 電源線, 護目鏡, 尖嘴鉗, 中文操作手冊



點焊機



OMEGA 熱電偶測溫線, 測溫棒, 溫升膠, 耐溫膠帶



OMEGA 熱電偶測溫線(K, T, E, J, R, B, S 等型)



OMEGA T 型測溫線點焊+ Y 型端子



溫升膠(D3, 606)



3M 耐溫膠帶



薄片型熱電偶貼片



20CH 快速接頭轉接盒



PT-100 Ω



高溫陶瓷金屬網測溫線(耐溫 1000 $^{\circ}$ C)

T Duplex Insulated
Copper-Constantan
Duplex
ANSI Type T

**"SLE" Special
Limits of Error
Available**



**ANSI
color
code
shown** **To order
IEC color
code visit
us online**

ANSI Color Code: Positive Wire, Blue; Negative Wire, Red; Overall, Brown
OMEGA Engineering does not use reprocessed PFA or PVC in manufacturing thermocouple wire.

To order									
Insulation	AWG No.	Model Number	Type Wire	Insulation		Max Temp		Nominal Size mm (inches)	Wt.† kg/300 m (lb/1000')
				Conductor	Overall	°C	°F		
Glass	20	GG-T-20	Solid	Glass Braid	Glass Braid	260	500	1.5 x 2.4 (0.060 x 0.095)	4 (9)
	20	GG-T-20S	7 x 28	Glass Braid		260	500	1.5 x 2.5 (0.060 x 0.100)	4 (9)
	24	GG-T-24	Solid	Glass Braid		200	400	1.3 x 2.0 (0.050 x 0.080)	3 (5)
	24	GG-T-24S	7 x 32	Glass Braid		200	400	1.3 x 2.2 (0.050 x 0.085)	3 (5)
	26	GG-T-26	Solid	Glass Wrap		200	400	1.1 x 1.9 (0.045 x 0.075)	2 (4)
	28	GG-T-28	Solid	Glass Wrap		200	400	1.0 x 1.4 (0.040 x 0.055)	2 (3)
Glass with Stainless Steel Overbraid	20	GG-T-20-SB	Solid	Glass	SS Braid Over Glass	260	500	2.2 x 3.0 (0.090 x 0.120)	6 (14)
	20S	GG-T-20S-SB	Solid			260	500	2.2 x 3.0 (0.085 x 0.117)	5 (11)
	24	GG-T-24-SB	Solid			200	400	2.2 x 3.0 (0.085 x 0.117)	5 (11)
Kapton Polyimide Tape	20	KK-T-20	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.5 x 2.5 (0.060 x 0.100)	5 (11)
	24	KK-T-24	Solid	Fused Polyimide Tape	Fused Polyimide Tape	260	500	1.3 x 1.9 (0.050 x 0.075)	3 (6)
PFA Glass	30	TG-T-30	Solid	PFA	Glass Braid	150	300	0.9 x 1.2 (0.034 x 0.047)	1 (2)
	36	TG-T-36	Solid			150	300	0.7 x 1.0 (0.028 x 0.038)	1 (2)
	40	TG-T-40	Solid			150	300	0.7 x 0.9 (0.026 x 0.035)	1 (2)

Thermocouple Tolerances (Reference Junction at 0°C)

American Limits of Error ASTM E230-ANSI MC 96.1

ANSI Code		Standard Limits†		Special Limits†	
J	Temp Range	>0 to 750°C	>32 to 1382°F	0 to 750°C	32 to 1382°F
	Tolerance Value	2.2°C or 0.75%	4.0°F or 0.75%	1.1°C or 0.4%	2.0°F or 0.4%
K	Temp Range	>0 to 1250°C	>32 to 2282°F	0 to 1250°C	32 to 2282°F
	Tolerance Value	2.2°C or 0.75%	4.0°F or 0.75%	1.1°C or 0.4%	2.0°F or 0.4%
	Temp. Range* Tolerance Value	-200 to 0°C 2.2°C or 2.0%	-328 to 32°F 4.0°F or 2.0%		
T	Temp Range	>0 to 350°C	>32 to 662°F	0 to 350°C	32 to 662°F
	Tolerance Value	1.0°C or 0.75%	1.8°F or 0.75%	0.5°C or 0.4%	1°F or 0.4%
	Temp. Range* Tolerance Value	-200 to 0°C 1.0°C or 1.5%	-328 to 32°F 1.8°F or 1.5%		
E	Temp Range	>0 to 900°C	>32 to 1652	0 to 900°C	32 to 1652°F
	Tolerance Value	1.7°C or 0.5%	3°F or 0.5%	1.0°C or 0.4%	1.8°F or 0.4%
	Temp. Range* Tolerance Value	-200 to 0°C 1.7°C or 1.0%	-328 to 32°F 3°F or 1.0%		
N	Temp Range	>0 to 1300°C	>32 to 2372°F	0 to 1300°C	32 to 2372°F
	Tolerance Value	2.2°C or 0.75%	4.0°F or 0.75%	1.1°C or 0.4%	2.0°F or 0.4%
	Temp. Range* Tolerance Value	-270 to 0°C 2.2°C or 2.0%	-454 to 32°F 4.0°F or 2.0%		
R S	Temp Range	0 to 1450°C	32 to 2642°F	0 to 1450°C	32 to 2642°F
	Tolerance Value	1.5°C or 0.25%	2.7°F or 0.25%	0.6°C or 0.1%	1°F or 0.1%
B	Temp Range	800 to 1700°C	1472 to 3092°F	Not Established	
	Tolerance Value	0.5%	0.5%		



Resistance vs. Wire Diameter (Resistance in ohms ft)

AWG No.	Diameter		Type K ^{††} CHROME ^{††} ALOMEGA [®]	Type J Iron/ Constantan	Type T Copper/ Constantan	Type E CHROME ^{††} Constantan	Type S Pt10%Rh	Type R Pt13%Rh
	inches	mm						
6	0.162	4.11	0.023	0.014	0.012	0.027	0.007	0.007
8	0.128	3.25	0.037	0.022	0.019	0.044	0.011	0.011
10	0.102	2.59	0.058	0.034	0.029	0.069	0.018	0.018
12	0.081	2.06	0.091	0.054	0.046	0.109	0.028	0.029
14	0.064	1.63	0.146	0.087	0.074	0.175	0.045	0.047
16	0.051	1.30	0.230	0.137	0.117	0.276	0.071	0.073
18	0.040	1.02	0.374	0.222	0.190	0.448	0.116	0.119
20	0.032	0.81	0.586	0.357	0.298	0.707	0.185	0.190
24	0.0201	0.51	1.490	0.878	0.7526	1.78	0.464	0.478
26	0.0159	0.40	2.381	1.405	1.204	2.836	0.740	0.760
30	0.0100	0.25	5.984	3.551	3.043	7.169	1.85	1.91
32	0.0080	0.20	9.524	5.599	4.758	11.31	1.96	3.04
34	0.0063	0.16	15.17	8.946	7.66	18.09	4.66	4.82
36	0.0050	0.13	24.08	14.20	12.17	28.76	7.40	7.64
38	0.0039	0.10	38.20	23.35	19.99	45.41	11.6	11.95
40	0.00315	0.08	60.88	37.01	31.64	73.57	18.6	19.3
44	0.0020	0.051	149.6	88.78	76.09	179.20	74.0	76.5
50	0.0010	0.025	598.4	355.1	304.3	716.9	185	191
56	0.00049	0.012	2408	1420	1217	2816	740	764