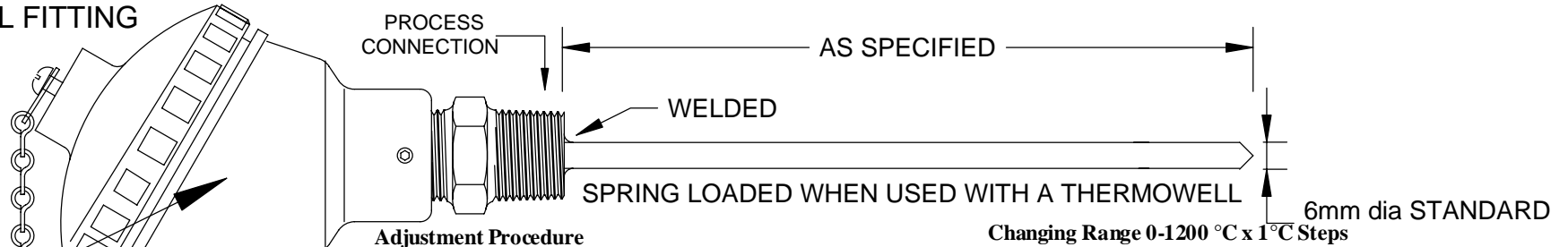
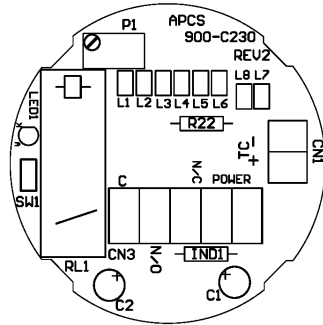


MIMS Thermocouple Head-mounted Temperature Switch

LARGE ALUMINIUM
TERMINAL HEAD IP65
STAINLESS STEEL FITTING

DIRECT ACTION L8
(NORMALLY OPEN)

REVERSE ACTION
(FAIL SAFE) L7
(NORMALLY CLOSED)



Adjustment Procedure

1. A millivolt signal representing the trip temperature is injected into connector CN1.
2. Adjust trip point pot P1 until red LED indicator turns on (for direct option).
3. Check trip operation by adjusting millivolt signal up and down.

Changing Range 0-1200 °C x 1°C Steps

1. Determine which link need to be soldered. This can be found from the input code in the ordering code of your product
2. Use a solder sucker to open any links that should not be joined (only one link from L1 to L6 should be joined at one time)
3. Solder the link for the required range (out of L1 to L6).
4. Follow adjustment procedure to check operation.

Order Code: _____ Model TCTS KL- XOX

Range:

Input: _____
1 = Type K thermostat range 0 –1200 °C +1°C steps
L1 = 100, L2 = 200, L3 = 400, L4 = 600,
L5 = 800, L6 = 1200°C

Option: _____
0 = None
1 = Latching relay (lockout).

Reverse Action

1. All units are supplied as direction action by default (L8 is joined)
2. Use a solder sucker to open link L8.
3. Solder link L7 for reverse action (**Fail safe**) N/C
4. Follow adjustment procedure to check operation

General Specifications

Power supply:	18-30Vac/dc
Connection:	4 wire, 5 way screw terminals
Size:	52mm diameter x 18H
Mounting:	Two 4.5Φmm holes 40mm centres
Input:	Type K thermocouple (standard).
Output:	Relay contact C/O rated at 10A / 32V AC/DC resistive
Trip adjustment:	15 turn trim pot using coding plug for signal injection
Dead band:	5% of range (standard).
Relay action:	Direct or reverse (Fail safe) is solder pad selectable.
Trip indication:	Red LED
Repeatability:	1% up to 200°C, 0.5% > 200°C range.
Cold junction error:	< 0.04% / °C for type K 100°C range.
Maximum head temperature:	70°C
Option:	Latching relay (lockout)

TEMPERATURE RANGE
ADJUSTABLE FROM 0 – 1200°C X 1°C
SELECTABLE SOLDER PAD
100, 200, 400, 600, 800, 1200°C

MODEL NO. TC TS
FACTORY SET WHEN RANGE SPECIFIED -
RANGE _____

TEMPERATURE CONTROLS PTY LTD

Certificate No: QEC 14412
AS/NZS 9001:2000

CONDITIONS

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MELBOURNE : 8/280 WHITEHALL ST
YARRAVILLE VIC 3031
PHONE : (03) 9687 0000 FAX : (03) 9687 1900
EMAIL : sales@temperature.com.au



TITLE
TYPE K TEMPERATURE SWITCH

SIZE : A4	DATE : 25/09/09	DWG NO : SD 502
SCALE : NTS	DRAWING BY K.F	REV : 03

TEMPERATURE CONTROLS PTY LTD

ACN: 650 190 183 ABN: 966 501 901 83
7 YAMMA STREET
SEFTON, NSW 2162 AUSTRALIA
PH: (02) 9721 8644 FAX: (02) 9738 9339 EMAIL: sales@temperature.com.au
www.temperature.com.au



SAI Global
ISO 9001
LIC 14412

THERMOCOUPLES * RTD SENSORS * THERMOWELLS * EXTENSION CABLES * LEVEL SWITCHES
K Type Temperature Switch—Drawing SD 502 (literature 1240)

Temperature Switch- Type K Adjustable Range 0 -1200°C

Temperature Range 0 – 1200 °C Set point adjustable from 0 – 1200 °C x 1 °C, * Specify set point In-head adjustable relay contact – 10A / 32V AC/DC resistive

The temperature switch will normally be factory set at any point from 0 – 1200 °C x 1 °C

Comprising

Large cast aluminium head (IP65) cable entry M20
Head mounted change over relay 10 amp / 32V resistive
½ " NPT process connection, 310 stainless steel, MIMS
6mm diameter fixed sensor
U = as specified

Option:

316 stainless steel
Barstock, parallel thermowell. 1/2" BSP Process connection.
U = as specified
As per drawing SD 012/SD039

Input: Type K thermocouple - with cold junction compensation
Power supply: 18-30V AC/DC
Output: Change over relay contact rated at 10A/ 32V AC/DC resistive
Connection: 4 wire, 5 - way screw terminals
Relay action: direct or reverse (**fail safe**) is solder pad selectable
Option: Latching relay (lockout)

Factory Set - set up features
Range selection 100, 200, 400, 600, 800 and 1200°C by
solder pads
Set point by 15 turn trimpot with coding plug, signal /
simulate

Pricing:

☑ Complete assembly as per drawing SD 502 up to 150mm long x 6mm Ø
Price Each: \$305.00

☑ Options – Refer to our price book (K Thermocouples)

☑ Head-mounted temperature switch only
Price Each: \$265.00

TEMPERATURE CONTROLS PTY LTD

ACN: 650 190 183 ABN: 966 501 901 83

7 YAMMA STREET

SEFTON, NSW 2162 AUSTRALIA

PH: (02) 9721 8644 FAX: (02) 9738 9339 EMAIL: sales@temperature.com.au

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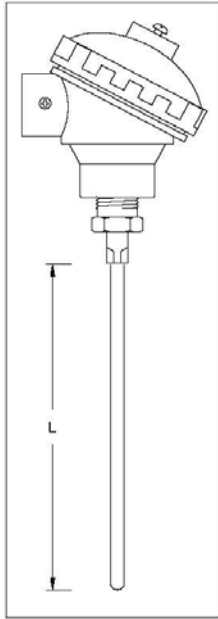
SAI Global
ISO 9001
LIC 14412

THERMOCOUPLES * RTD SENSORS * THERMOWELLS * EXTENSION CABLES * LEVEL SWITCHES

MIMS THERMOCOUPLE HEAD-MOUNTED THERMOSTAT

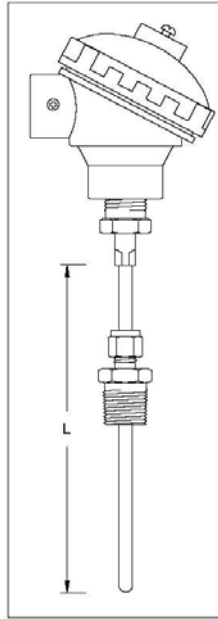
SEE DATA SHEET SD 502

MODEL TC06
BASIC ASSEMBLY
LARGE ALUMINIUM
TERMINAL HEAD



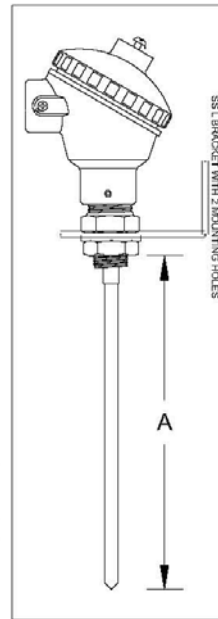
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MODEL TC06 C/W
MALE CONNECTOR
BRASS/STAINLESS STEEL
NPT/BSP THREAD



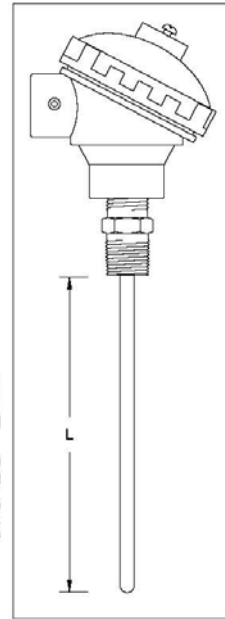
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BRACKET MOUNTED,
HEX NIPPLE
CONNECTION



REF : SD 392

HEX NIPPLE
CONNECTION
FIXED/WELDED
SPRING LOADED

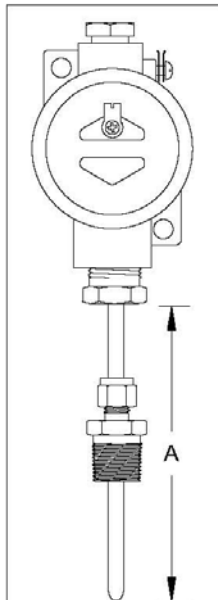


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MIMS THERMOCOUPLE HEAD-MOUNTED THERMOSTAT

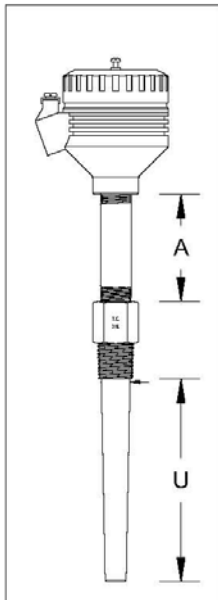
SEE DATA SHEET SD 502

SURFACE MOUNTED
3mm Ø SS MIMS
SS GLAND



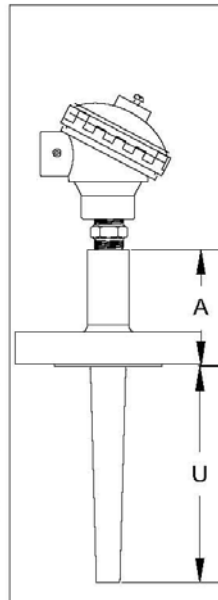
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Ex D CERTIFIED
CLASS 1 ZONE 1
FLAME PROOF
ASSEMBLY



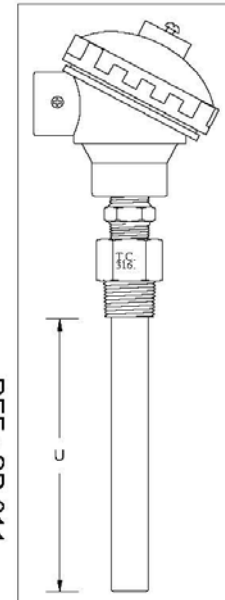
REF : SD 141

HEX NIPPLE
CONNECTION
WITH FLANGED
CONNECTION



REF : SD 287

HEX NIPPLE
CONNECTION
WITH BARSTOCK
THERMOWELL



REF : SD 011