

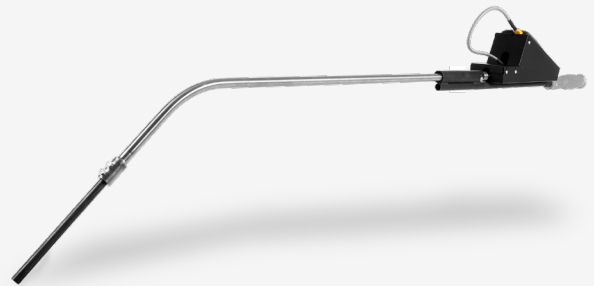
Technical Data Sheet

❖ Marshall Thermocouple

The original

Advantages

- Extremely low costs per temperature reading
- Can be used up to 1350° C
- Several hundred measurements in aluminium
- Excellent durability in bronze, brass and copper alloys
- Easy to use and lightweight design



Description

The ready for use MARSHALL temperature sensor is a combination of a high temperature resistant steel tube, covered with a thin graphite coating and assembled with a thermo wire. The element can be used directly and without pre-heating. A MARSHALL thermo-element consists of a chromium-steel tube type SS 446 / DIN 1.4749 and two type 'K' (NiCr/Ni) thermo wires. These elements are simple to connect, very economical and easy to use with the lightweight lance and optional digital pyrometer.

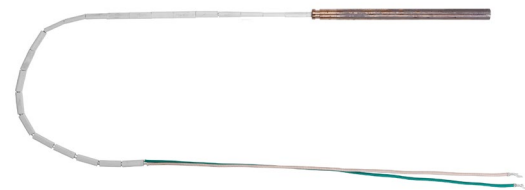
The solid construction of the assembly guarantees a very good service life. Through this combination of quick response, long service life and low-cost MARSHALL became the very well reputed market-leader he is today, the best in his class and reported to be superior.

Types:

Type 501-T-8-"Y" for 8" / 203 mm tip with wire lengths from 31" / 790 mm up to 120" / 3050 mm

Type 701-T-"X"- "Y" for tips from 12" / 305 mm up to 30" / 762 mm with wire lengths from 31" / 790 mm up to 120" / 3050 mm

Type MT-"X"-6 for tips from 12" / 305 mm up to 30" / 762 mm with a wire length of 6" / 150 mm,



Standard lengths

Various dimensions, for further info please see list with standard sizes.

Application:

Aluminium- and copper (alloys), dip measurements and continuous temperature sensing for primary aluminium and copper, in troughs, (crucible-) furnaces, filter-boxes and many more

Max. temp:

1300 - 1350° C for dip measurements
850° C for continuous temperature sensing

Preheating:

Not required

Protection tube:

Oxidised chromium steel type SS 446 / DIN 1.4749

Element:

Type K (NiCr/Ni) CLASS 1, max. tolerance 0,4 %
Also available with Certificate of Conformity

Colour-code:

Green (+), white (-)

Connection tube:

The element is fixed in lance with one screw

Connection element:

Two U-clips at the end of the wire
MT-versions are WITHOUT U-clip

Order quantity:

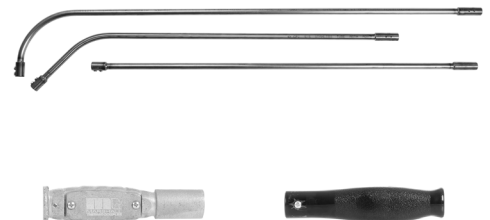
5 pieces = 1 packing unit

Order information:

EXAMPLE - type 501-T-8-43 = 203 mm tip and 1100 mm wire
Type 701-T-12-55 = 305 mm tip and 1400 mm wire
Type MT-24-6 = 610 mm tip and 150 mm wire

Accessories:

EXAMPLE - type 501-EX-43 = lance bend version for 1100 mm elements
Type 101-EX-72 = straight lance for 1830 mm elements
Type 501-PG = plastic grip
Type 501-AG = aluminium grip
FLUKE 51-II = digital temperature device

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