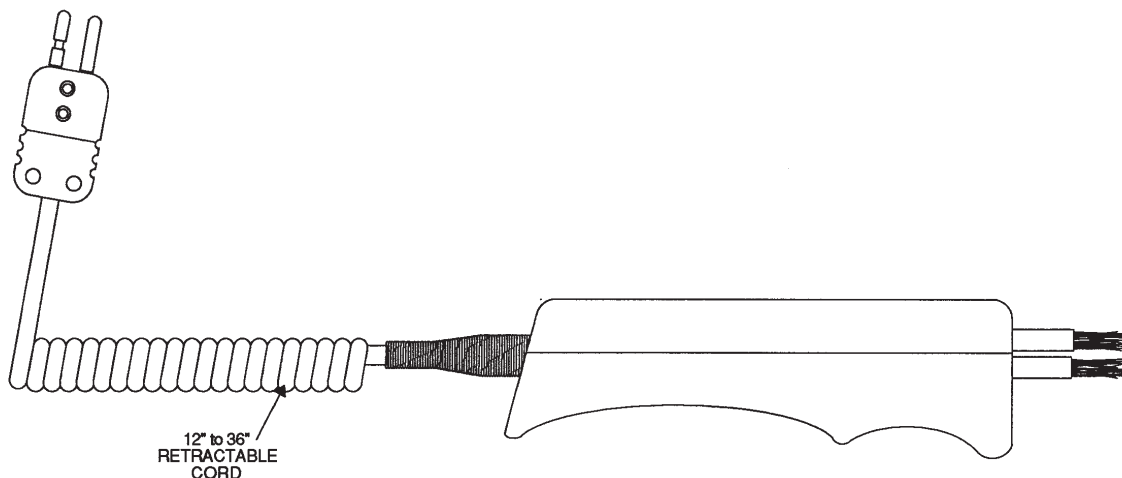


BRUSH THERMOCOUPLES



SECTION 4

The JMS Brush Thermocouple can be used in applications in which a surface temperature of a stationary or moving electrically conducting surface is needed.

True temperature measurement of a surface is very hard to obtain. Previous designs called for the probe to fully contact with as small a junction as possible, spring load with as even pressure as possible, insulate around the surface to be measured, or combinations of all these methods.

All of the above methods have proven to have their own particular faults. When compared to an infrared sensor, which does accurately measure surface temperature (unit must have correct emissivity adjustment), most of these above mentioned sensors either read much hotter or colder than the infrared. However, even the infrared style exhibits problems when emissivity levels fall beneath .4 or less (most metallic surfaces).

JMS has applied for a patent on this brush sensor because of its unique design and widespread application, i.e., molds, rolls, bearings, nozzles, plates, pipes, engines, etc., it is usually preferred in a hand held design, but can be adapted for permanent mounting.

Standard calibration for this sensor is usually K because of its resistance to corrosion and stiffness. But any type thermocouple may utilize this design. Call or write for further information.

#1	SERIES
4B	Specialty brush sensor
#2	TYPE
J	Iron/Constantan
K	Chromel/Alumel (Standard)
X	Other, specify
#3	DESIGN
S	Standard handle / 12" polyvinyl coil cord. Length will stretch from 12" to 36"
X	Other, specify
#4	COLD END TERMINATION
A	Bare ends
B	Miniature plug (Standard)
C	Standard plug
#5	REPLACEMENT BRUSHES
0	None
1 +	Number of sets of replacement brushes

For replacement brushes only, use part #4B__ZZ.

4B	K	S	B	2	
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