



WESTWIND AIR BEARINGS  
 TECHNICAL STATEMENT – 1 JUNE 2004

**CHANGE TO THERMOCOUPLE WIRE COLOURS**

Due to changes in IEEC regulations, the colours of the thermocouple wires in all new Westwind air bearing PCB spindles have changed. Please see tables below for your information:

General Specification for RS thermocouple products	TYPE J	TYPE T
Minimum continuous temperature	-60 C	-200 C
Maximum continuous temperature	+850 C	+400 C

Tolerances (IEC 584)	TYPE J	TYPE T
Accuracy - Class 2*	+/-2.5 C or 0.0075xT	+/-1 C or 0.0075xT
Temperature range - Class 2	-40 C to +750 C	-40 C to +350 C
BS specification number	4937 Part 4	4937 Part 5
+ ve arm	Iron	Copper
Composition:	Fe	100%
	Cu	none
-ve arm	Nickel/Aluminium	Copper/Nickel
Composition:	Fe	0.3%
	Ni	42%
	Cu	balance
	Mn	1.2%

(\*Note: T refers to measured temperature in C.)



Change to Thermocouple Wire Colours  
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Colour Code Cross Reference							
Type	Conductors (+/-)	Insulation colour codes					
		British BS 1843:1952 (obsolete)			IEC 584-3		
Cable code		Sheath	+ve	-ve	Sheath	+ve	-ve
J (JX)	IRON*/CONSTANTAN (Iron/Copper-Nickel, Fe/Konst, Iron/Advance, Fe/Constantan, I/C)	Black	Yellow	Blue	Black	Black	White
T (TX)	COPPER/CONSTANTAN (Copper/Copper-Nickel, Cu/Con, Copper/Advance)	Blue	White	Blue	Brown	Brown	White

(Note: For THERMOCOUPLE CONNECTORS body colours are as outer sheath colours above.)

Please note: There are no electrical changes to the operation of the thermocouples.

For further information, please contact Westwind Technical Support:

support@westwind-airbearings.com.

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