

DECISION SHEET

Standard(s)- (year and edition): IEC 60601-1:1988 Ed.2 Am1+Am2	Sub clause(s): 42	Sheet n°: DSH-429
Subject: Thermocouple vs. resistance method	Key words: Temperature, thermocouple, resistance method, windings	Confirmed by CTL at its 39th meeting, in Cologne
Question: Use of thermocouple instead of resistance method? Can the allowable values in Table Xa and Table Xb be reduced by 10°C if temperature determined by thermocouples (like IEC 60950 Cl.5.11, Ed. 2)?		
Decision: The allowable maximum temperatures given in Table Xa and Table Xb apply, regardless of the test method. However, the systematic errors and uncertainties in any measurement must be considered when comparing the measured value to the required value. COR method should be utilized whenever possible. If not possible, the allowable limit of Table Xa and Table Xb must be reduced by 10°C.		
Explanatory notes: Use of thermocouple may be acceptable (see 42.3.4 ".....unless the windings are non-uniform or severe complications are involved....")		