

(PREVIEW)

*Indian Standard***TRANSMITTERS FOR USE IN INDUSTRIAL -
PROCESS CONTROL SYSTEMS – SPECIFICATION****PART 1 METHODS FOR EVALUATING THE PERFORMANCE****1 SCOPE**

1.1 This standard is applicable to transmitters which have either a standard electric current output signal as per IS 7728 : 1984 or a standard pneumatic output signal in accordance with IS 7722 : 1975, or a standard voltage output signal as per IS 8493 : 1977.

1.2 The tests detailed herein may be applied to transmitters which have other output signals, provided that due allowance is made for such difference.

1.3 Transmitters for the measurement of electrochemical properties, such as pH transmitters, are not covered by this standard.

2 REFERENCES

The Indian Standards listed in Annex A are necessary adjuncts to this standard.

ANNEX A**(Clause 2.1)****LIST OF REFERRED INDIAN STANDARDS**

<i>IS No.</i>	<i>Title</i>
7722 : 1975	Analogue Pneumatic signals for process control systems
7728 : 1984	Analogue de current signals for process control systems (first revision)
8493 : 1977	Analogue de voltage signals for industrial process measurements and control systems
9000	Basic environmental testing procedures for electronic and electrical items
(Part 2/Sec 1 to 4): 1977	Cold test, Section 1 General , Section 2 Cold test for non heat dissipating items with sudden change of temperature, Section 3 Cold test for non-heat dissipating item with gradual change of temperature, Section 4 Cold test for heat dissipating items with gradual change of temperature
(Part 3/Sec 1 to 3) : 1988	Dry heat test, Section 1 General, Section 2 and Section 3 Dry heat test for non-heat dissipating items with sudden change of temperature

(Part 4) : 1979	Damp heat (steady state)
(Part 5/ Sec 1 and 2) : 1981	Damp heat (cycle) test Section 1 16 + 8 h cycle, Section 2 12 + 12 h cycle
(Part 7/Sec 3): 1979	Impact test, Section 3 Drop and topple
(Part 8): 1981	Test N : Change of temperature, Section 1 Test Na : Rapid change of temperature (thermal shock) with prescribed time of transition-two chamber method (first revision), Section 2 Test Nb : Change of temperature (temperature cycling)with specified rate of change one chamber method, Section 3 Test Nc: Rapid change pf temperature (thermal shock) – Two fluid bath method (first revision)