

**INCH-POUND**

MIL-T-7990B  
 AMENDMENT 3  
 30 September 1992  
 SUPERSEDING  
 AMENDMENT 2  
 15 November 1982

# MILITARY SPECIFICATION

## TRANSMITTER, TEMPERATURE, ELECTRICAL RESISTANCE, -70° TO +300°C

This amendment forms a part of Military Specification MIL-T-7990B, dated 26 April 1966 and is approved for use by the Department of the Air Force and is available for use by all Departments and Agencies of the Department of Defense.

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### 2.1 SPECIFICATIONS

#### Federal

Delete: "QQ-M-151 Metals, General Specification for Inspection of"

#### Military

Add: "MIL-E-17555 Electronic and Electrical Equipment, Accessories and Repair Parts, Packaging and Packing of"

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\* Delete: "MIL-E-5272" and substitute "MIL-STD-810"

\* Delete: "MIL-D-1000" and substitute "DOD-D-1000" same title.

Add: "FED-STD-151 Metal, Test Methods"

Under "Military" add:

"MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes"

\* Add to bottom of Page 1:

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to Technology & Industrial Services Division, SA-ALC/TIRDM, Kelly AFB, TX 78241-5000 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

\*AMSC N/A

FSC 6685

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2.1 STANDARDS:

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3.6, line 4: Delete "MIL-D-70327" and substitute "DOD-D-1000"

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Add the following new paragraph:

"3.10 Reclaimed materials. The use of reclaimed materials shall be encouraged to the maximum extent possible without jeopardizing the intended end use of the item."

4.1, line 2 and line 4: Change "supplier" to "Contractor."

4.4 and 4.4.1, delete in its entirety and substitute the following:

"4.4 Acceptance tests. The acceptance tests of the transmitters shall consist of individual tests and Sampling Plans A and B tests."

"4.4.1 Individual tests. Each production transmitter shall be subjected to the following tests:

- a. Examination of product.
- b. Transmitter adjustment."

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4.4.2.1, delete and substitute:

"4.4.2.1 Sampling plan A. Samples shall be selected in accordance with MIL-STD-105, Inspection Level II, AQL 2.5 percent, and subjected to the following test as described under 4.6:

- a. All individual tests.
- b. Transmitter resistance.
- c. Vibration endurance.
- d. Response time.
- e. Thermal conductivity.
- f. Thermoelectric potential.
- f. Thermoelectric potential.
- g. Self-heating."

4.4.2.2: Delete and substitute:

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2.1 STANDARDS:

"4.4.2.2 Sampling plan B. Unless otherwise specified (see 6.2), two transmitters shall be selected at random from the first 15 transmitters produced on the contract on order. Each sample transmitter shall be subjected to the following:

All sampling plan tests.

Low temperature exposure.

High temperature exposure.

Vibration - high temperature.

Humidity.

Insulation leakage.

Salt spray.

Strength.

Pressure test (MS28034-3 transmitters only).

Failure by any sample unit subjected to sampling Plan A or B requirements shall be cause for rejection of all transmitters in the sample lot. The failure shall be reported to the procuring activity. No units shall be delivered or accepted until the procuring activity is satisfied that all units meet all requirements."

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4.4.2.3; delete in its entirety.

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\* 4.6.4.2; delete "Procedure XII, Curve A, or MIL-E-5272C(1)" and substitute "MIL-STD-810, Method 514-4 Procedure I, Category 5."

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4.6.14 line 2, delete; "QQ-M-151" and substitute "FED-STD-151."

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5.: Delete and substitute the following:

"5. PACKAGING

5.1 Preservation, packaging and packing requirements shall be in accordance with MIL-E-17555.

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**2.1 STANDARDS:**

**5.2 Marking.** In addition to any special or other identification marking required by the contract or order (see 6.2) each unit pack, intermediate and exterior container and unitized load shall be marked in accordance with MIL-STD-129."

**6.2** Add the following subparagraph as follows:

"d. Conditions under which the special tests may be waived and any instructions as to where special tests will be conducted."

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\* **6.3** "Qualification" delete in its entirety and substitute the following:

**6.3 Qualification.** With respect to products requiring qualification, awards will be made only for products which are, at the time set for opening of bids, qualified for inclusion in Qualified Products List whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or purchase orders for the products covered by this specification. The activity responsible for the Qualified Products List is San Antonio ALC/LDIE, Kelly AFB, TX 78241-5000 and information pertaining to qualification of products may be obtained from that activity.

NOTE: The margins of this amendment are marked with an asterisk, or vertical lines to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirement of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

**Custodians:**

Army - AV  
Air Force - 99  
Navy - AS

Preparing activity  
Air Force - 82

Project 6685-0882

**Review activities:**

DLA-GS