



REVIEW ACTIVITIES: DLA-GS
USER ACTIVITIES: ARMY-ME; AF-80

This military standard is approved for use by the US Army Tank-Automotive Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.
AMSC N/A

APPROVED 21 MAR 66
REVISED 17 DEC 85
29 JUL 88

P. A. ARMY-AT Other Cust	INTERNATIONAL INTEREST	TITLE TRANSMITTER, LIQUID QUANTITY, FLOAT TYPE, ENGINE FUEL	MILITARY STANDARD	
			MS500040	
PROCUREMENT SPECIFICATION MIL-I- 10986	SUPERSEDES:		SHEET 1 OF 2	

REVIEW ACTIVITIES: DLA-GS
USER ACTIVITIES: ARMY-NE; AF-80

MS PART NUMBER	FORMER PART NUMBER	DIMENSIONS			R	FLOAT POSITION	FLOAT TYPE
		A MAX	B MIN	C			
MS500040-1	10872707	7.23	.13	<u>3.96</u> 3.48	3.93	I	REGULAR
MS500040-2	8376496 7526038	7.67	.39	<u>3.96</u> 3.48	4.15	I	REGULAR
MS500040-3	8376495	10.28	.47	<u>5.42</u> 5.11	5.51	II	REGULAR
MS500040-4	10942801	11.94	.47	<u>5.50</u> 5.20	8.50	II	REGULAR
MS500040-5	7034597	15.56	.29	<u>8.21</u> 7.90	9.32	I	REGULAR
MS500040-6	8376491	16.90	.19	<u>8.21</u> 7.90	10.35	I	REGULAR
MS500040-7	10921745	17.15	2.35	<u>9.77</u> 9.71	9.03	II	REGULAR
MS500040-8	7064625	33.50	1.40	<u>14.79</u> 14.49	21.07	I	LONG
MS500040-9	8737838	14.59	.53	<u>7.40</u> 7.00	8.67	I	REGULAR
MS500040-10	12332788	11.65	3.19	<u>7.47</u> 7.41	4.47	I	REGULAR

REQUIREMENTS:

- WHEN TESTED IN ACCORDANCE WITH THE PROCUREMENT SPECIFICATION, RESISTANCE CALIBRATION MEASUREMENTS SHALL BE 0.00 TO 0.50 OHMS AT EMPTY POSITION, AND 29.50 TO 37.50 OHMS AT FULL POSITION.
- ANY PORTION OF THE ASSEMBLY AS SHOWN BELOW THE INDICATED MOUNTING PLANE (REF) SHALL PASS THROUGH AN OPENING OF 1.562 INCHES IN DIAMETER.
- FOR NEW DESIGN APPLICATIONS, A FUEL RESERVE OF 10 PERCENT OF THE APPLICABLE FUEL TANK CAPACITY SHALL REMAIN WHEN THE FLOAT FIRST REACHES THE EMPTY POSITION AS SHOWN WITH FUEL TANK LEVEL DECLINING.
- FOR NEW DESIGN APPLICATIONS, THE FLOAT LEVER FULCRUM, LOCATION OF WHICH IS DETERMINED BY DIMENSION "C", SHALL BE ESTABLISHED IN LINE WITH THE 50 PERCENT FUEL CAPACITY LEVEL (REF) OF THE APPLICABLE FUEL TANK.
- THE MS PART NUMBER AND MANUFACTURER'S IDENTIFICATION SHALL BE MARKED ON BODY OF TRANSMITTER IN ACCORDANCE WITH MIL-STD-130.
- TRANSMITTER SHALL HAVE A STEADY AND CONTINUOUS OUTPUT FOR ALL FLOAT POSITIONS AND SHALL TRACK LINEARLY WITH THE FLOAT POSITION.
- ALL STEEL PARTS, EXCEPT STAINLESS STEEL, SHALL BE ZINC OR CADMIUM PLATED IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
- MATERIAL, FLOAT: BRASS, NON-LEADED SHEET OR STRIP COPPER ALLOY NUMBER 260 OR 268; ANNEALED TEMPER, SPECIFICATION QQ-B-613 OR ASTM B36.
- THE USE OF RECYCLED MATERIALS WHICH MEET THE REQUIREMENTS OF THE APPLICABLE MATERIAL SPECIFICATIONS WITHOUT JEOPARDIZING THE INTENDED USE OF THE ITEM SHALL BE ENCOURAGED.

NOTES:

- UNIT 2 (TRANSMITTERS) TYPE 1 (LIQUID QUANTITY) CLASS 1 (FLOAT TYPE) OF PROCUREMENT SPECIFICATION.
- FOR ASSOCIATED INDICATOR, LIQUID QUANTITY - 24 VOLT DC ENGINE FUEL SEE MS24544.
- UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, TOLERANCES ARE $\pm .015$ ON DECIMALS, $\pm 1/32$ ON FRACTIONS.
- THIS STANDARD IS NOT INTENDED TO LIMIT CONSTRUCTION TO FEATURES OTHER THAN AS SHOWN HEREON, BY DIMENSIONS, NOTATIONS, AND REFERENCED DOCUMENTS.
- FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
- REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS.

APPROVED 21 MAR 66 REVISED 17 DEC 85 FOR CHANGES SEE PAGES 1 AND 2

P. A. ARMY-AT
Other Cust

INTERNATIONAL
INTEREST

TITLE

TRANSMITTER, LIQUID QUANTITY,
FLOAT TYPE, ENGINE FUEL

MILITARY STANDARD

MS500040