

OPERATING AND MAINTENANCE INSTRUCTIONS

INTRINSICALLY SAFE TRIPLE
FUNCTION GAUGING TAPE FOR

OPEN APPLICATIONS

LIQUID MEASURE OF ULLAGE, OIL/WATER AND TEMPERATURE

MODEL D-2401-2

TECHNICAL APPROVED BY:

FACTORY MUTUAL AND SIRA FOR CLASS I, DIVISION I, GROUPS C & D

AND

LLOYD'S REGISTER AND BUREAU VERITAS "MED" APPROVED

IN ACCORDANCE WITH IMO RESOLUTION MEPC.5 (XIII) FOR OIL/WATER DETECTION

MMC INTERNATIONAL CORP 60 INIP DRIVE INWOOD, NEW YORK 11096

DRAWING FILE NO. A-2401-600 REV A



1.1 LINEAR ACCURACY SPECIFICATION:

MMC PORTABLE ELECTRONIC GAUGING TAPE STANDARD PRODUCTION LINEAR MEASUREMENT ACCURACY

Applicable Equipment: MMC Models D-2401-2 (Trimode),

D-2401-2UI (Ullage/Interface,

Tape Lengths: 50 FT.,65FT., 75 FT., 100 FT, and

15M, 20M, 25M, 30M, 40M

Basic Gauging Tape Style: Steel, 0.375 wide x 0.006 thick, yellow

or white faced, black and red

graduation markings. Manufactured in accordance with Federal Specification

GGG-T-106F.

System Linear Accuracy at 68° F: English Reading, $\pm 1/8''$ of reading

plus \pm 0.01% of total tape length.

Metric Reading, ±2MM of reading plus +/- 0.01% of total tape length.

GENERAL STATEMENT OF LINEAR ACCURACY

MMC warrants that the above listed, newly produced equipment models, incorporating the listed basic gauging tape style and lengths, will perform to the stated system accuracy.

Certification of accuracy for new equipment is available at extra cost. Certification cost to standards of accuracy more precise than the stated system accuracy will be quoted upon request.

SECTION I

I. GENERAL

1.0 SPECIFICATIONS:

Display Readable Temperature Range	°F = -40° to 199.9°* °C = -40° to 150.0°
Guaranteed Temperature Calibration Range	32°F to 190°F
Accuracy Over Calibration Range	±0.5°F (±0.2°C)
Accuracy Linear Measurements	±1/8" (±2.0MM), Plus ±0.01% of Total Tape Length, worst case
Minimum Detectable Tank Bottom Liquid Level	3/8" (10MM)
Minimum Detectable Floating Product Level	1/8" (3MM)
Batteries for Intrinsically Safe Operation Only (supplied)	Duracell MN1604, Duracell MN1604
Battery Drain (Temperature Mode)	1.3 ma (In Air) 2.6 ma (In Fluid)
Display	3-1/2 Digit Liquid Crystal Display 1/2" Character Height
Operating Temperature Limit of Liquid Crystal Display, Ambient Conditions	-40°F to 176°F -40°C to 80°C
Storage Temperature Limits	-67°F to 185°F -55°C to 85°C
Available Tape Length - Single Face Scale	50 FT or 15 Meters 65FT or 20 Meters 75 FT or 25 Meter 100 FT or 30 Meters 100 FT (10ths & 100ths) 40 Meters
Hazardous Environments	Certified Intrinsically Safe BASEEFA/SIRA Gas Groups C&D