

### Description

- Permits ICAO Annex 10 CAT III ILS ramp check certification
- Checks VOR, GS, LOC, MB, Flight Director, and Autopilot
- Dual VOR/LOC/GS frequencies
- Separate and simultaneous MB/ILS
- Dual extended-range variable ILS
- Quick, easy one-man operation from the cockpit
- Lightweight and portable – weighs only 18 lbs.
- Built-in NICAD battery and charger
- Two year limited warranty; five & ten year available
- Rugged, reliable, affordable
- Backed by 40 years manufacturing experience
- CE Compliant
- Available non standard VOR/ILS frequencies with local agency approval



PN- 90 000 049  
NSN – 6625-01-421-5845

The T-30CM Ramp Test Set is designed for one-man operation of the VOR, MB, GS, LOC, flight director, and autopilot from the cockpit or flight deck. Built into a rugged and durable case, the T-30CM will permit compliance with CAT III periodic ramp check certification in all weather conditions.

### Features

#### VOR

- Allows selection of VOR bearing in 45° steps from 0 - 315°
- Manual slewing provides capability for checking full-scale deflection for “sticky” analog meter movement ( $\pm 10^\circ$ )
- Permits deletion of the REF 0, VAR 0, 30 and 9960 Hz modulation to check flag operation
- 1020 Hz tone enable switch
- Manual slewing of VOR bearing  $\pm 10^\circ$  left and right of course

#### LOC and G/S

- Allows selection of preset DDM deflections of: On Course, one and 2 dots off center
- Full-scale deflection can be tested using manual slewing
- Allows 90 and 150 Hz tones to be deleted
- Simultaneous LOC/GS/MB Mode
- 1020 Hz tone enable switch
- Variable attenuator calibrated in 1 dB steps
- Two preset paired frequencies available

#### Marker Beacon and ILS

- User selection of inner, middle, and outer marker
- Simultaneous MB and ILS output signals
- Variable and Preset DDM settings
- Variable attenuator to control output

#### Additional Features

- Rugged Mil-Spec case
- Built in battery and charger
- 115 or 230 VAC operation 40 – 400 Hz
- Simple to understand front panel and controls that requires minimal training
- Built-In diagnostic Self Test

## Specifications

### VOR Operation

Frequency	108.05 MHz $\pm$ 0.0025% 108.00 MHz $\pm$ 0.025%
Power	+17/ $\pm$ 2 dB
Attenuation	110 dB in 1 dB steps
Modulation	
Audio Frequency	30/9960 Hz
Audio Frequency Accuracy	$\pm$ 0.01%
AM Depth	30 $\pm$ 2%
FM Deviation	480 $\pm$ 30 Hz
Distortion	< 5%
Indicator Deflection/Bearing	0-315° / $\pm$ 0.1° in 45° Steps/Variable $\pm$ 10 °- 15°
Tone	1020 Hz $\pm$ 2%

### GS Operation

Frequency	334.70 MHz $\pm$ 0.0025% 334.55 MHz $\pm$ 0.0025%
Power	+11 $\pm$ 2 dBm
Attenuation	110 dB in 1 dB steps
Modulation	
Audio Frequency	90/150 Hz
Audio Frequency Accuracy	$\pm$ 0.01%
AM Depth	40% $\pm$ 3%
Distortion	< 5%
Phase Accuracy	90 to 150 Hz $\pm$ 10°
Indicator Deflection	
On Course	0.0 $\pm$ 0.01DDM/0.175 $\pm$ .025 DDM
Variable	-0.175 to + 0.175 DDM
Step	Up and Down; 1 & 2 Dots
Delete	90 and/or 150 Hz

### LOC Operation

Frequency	108.15 MHz $\pm$ 0.0025% 108.10 MHz $\pm$ 0.025%
Power	+17 $\pm$ 2 dB
Attenuation	110 dB in 1 dB steps
Modulation	
Audio Frequency	90/150 Hz
Audio Frequency Accuracy	$\pm$ 0.01%
AM Depth	20 $\pm$ 2%
Distortion	< 5%
Phase Accuracy	90 to 1150 Hz $\pm$ 10°
Indicator Deflection	
On Course	0.0 $\pm$ 0.01DDM/0.155 $\pm$ .02 DDM
Variable	-0.155 to +0.155 DDM
Step	Left and Right; 1 & 2 Dots
Tone	1020 Hz $\pm$ 2%

### MB Operation

Frequency	75.0 MHZ $\pm$ 0.005%
Power	+18 $\pm$ 2dBm
Attenuation	110 dB in 1 dB steps
Modulation	
Audio Frequency	400/1300/3000 Hz
Audio Frequency Accuracy	$\pm$ 2%
AM Depth	95 $\pm$ 5%
Distortion	< 10%

### Physical Characteristics

Size	14.5 x 9.4 x 6.5 in.
Weight	18 lbs.
Power	Internal Battery or external 120/220 VAC 50-400 Hz
Battery	NICAD 8 hrs @ 50% Duty Cycle
Environmental	Storage- -51° to + 71° C Operating -30° to +55°C



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