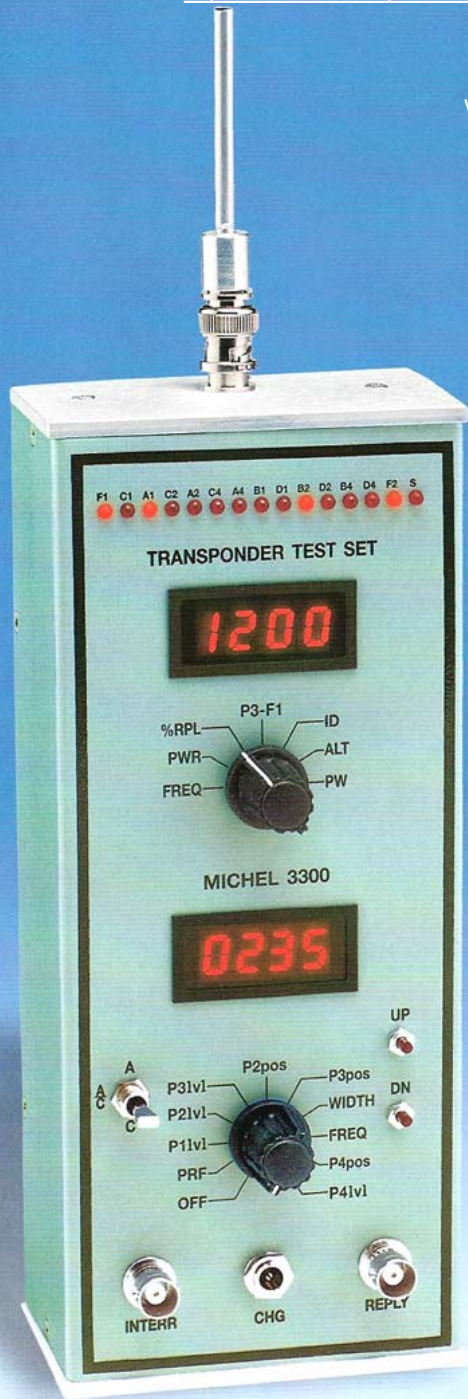




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## MICHEL 3300 TRANSPONDER TEST SET

The 3300 is designed to test ATC transponders on the bench as well as when they are installed in aircraft. As such the 3300 contains an interrogation transmitter. The intended range of the interrogation is less than 100 ft.

When used for Ramp testing the interrogation signal is comprised of pulse groups (PG) transmitted at a PRF of 235 PG/S.

A pulse group consists of 3 or 4 pulses with a nominal width of 0.80  $\mu$  S.

### SPECIFICATIONS:

#### INTERROGATION SPECS.

FUNCTION	RANGE	RESOLUTION	TOLERANCE
PRF	235 to 1700 I/S	100 I/S	+/- 2%
P1 Level	-10 to -80 dbm	1 db	+/- 1.5 db
P2 Level (ref P1)	+3 to -12 db	1 db	+/- .5 db
P3 Level (ref P1)	+3 to -12 db	1 db	+/- .5 db
P2 Position	-.35 to +.35 $\mu$ S	.05 $\mu$ S	+/- .03 $\mu$ S
P3 Position	-.7 to +.7 $\mu$ S	.1 $\mu$ S	+/- .03 $\mu$ S
Pulse Width	.3 to 1.7 $\mu$ S	.1 $\mu$ S	+/- .03 $\mu$ S
Frequency	1024 to 1038 MHz	1 MHz	+/- .1 MHz
P4 Position (ref P1)	2 to 17 $\mu$ S	1.0 $\mu$ S	+/- .03 $\mu$ S
P4 Level	-10 to -80 dbm	1 db	+/- 1.5 db

#### REPLY SPECS.

FREQUENCY	-10 to +10 MHz	.1 MHz	+/- .2 MHz
POWER	0 to 54 dbm	.5 db	1 db*
% REPLY	0 to 100	1	+/- 2%
DELAY (P3 to F1)	2 to 5 $\mu$ S	.1 $\mu$ S	+/- .1 $\mu$ S
ID	0 - 4096	1	N/A
ALT	-1.0 to 50 K ft.	100 ft.	N/A
PULSE WIDTH	.3 to .7 $\mu$ S	.02 $\mu$ S	.04 $\mu$ S

\* Power level is calibrated to +/- .5 db at 52 dbm and 20 dbm.

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