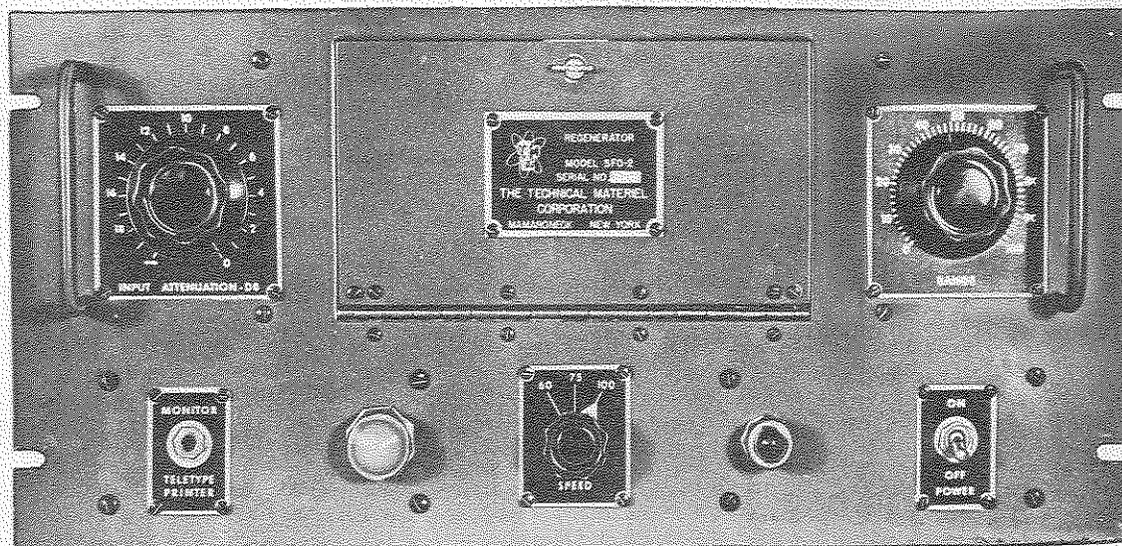


STATUS: Commercial
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Air Force
 DATE OF THIS SHEET: 11 Jun 52

AN/FGC-TYPE

COMMERCIAL TYPE NUMBER: PHILCO MODEL SFO-2
 REGENERATOR



PHILCO: SFO-2

The Philco Model SFO-2 Regenerator (Technical Materiel Corporation) is a device used for the correction of mark-space distortion of teletypewriter signals on either wire or radio communication facilities.

This regenerator equipment accepts signals in either audio (ON/OFF) form or in d-c form (polar or neutral), at 60, 75, or 100 wpm. The acceptable input distortion may be as much as 45%; the output distortion is less than 5%.

Regeneration of the signals is accomplished by electronic means. Sampling pulses are generated in the unit to synchronize with the center of each pulse. When the sampling pulse coincides with a mark, the pulse operates a relay circuit to produce a regenerated mark at the output; when the sampling pulse coincides with a space, a space pulse of proper duration is produced at the output.

Power requirements are 85 w of 110/220 v, 50/60 cyc ac.

AN/FGC-TYPE	INSTRUCTION LITERATURE: Not Available
	CLASSIFICATION OF EQUIPMENT: Unclassified
PHILCO MODEL SFO-2 : COMMERCIAL TYPE NUMBER	USING SERVICE : Air Force
REGENERATOR	DATE OF THIS SHEET : 11 Jun 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
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(Equipment consists only of a single major operating component.)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Long distance, radio link or landline. Project material issued in accordance with AFR-100-17.

INSTALLATION: Ground, fixed, rack mounted.

CAN COMMUNICATE WITH: This equipment is used in conjunction with related primary communication apparatus.

TECHNICAL CHARACTERISTICS

TYPE COMMUNICATION CIRCUITS: Input Keying: (tone 500 to 3,600 cps) -20 db to 0 db into 600-ohm line; 30 ma polar or 60 ma neutral dc (d-c positive or negative to ground).
 Output: Mercury relay contacts closed on mark during operation or during any steady input state into 600-ohm line.

CONTROLS: 60, 75, or 100 wpm teletypewriter signal selector; input attenuator OFF/ON; monitor plug-in jack; signal selector panel; range adjuster.

POWER REQUIREMENTS: 85-w, 110/220 v, 50/60-cyc ac.

PHYSICAL CHARACTERISTICS

Philco Model SFO-2 Regenerator measures 19 x 8-3/4 x 10 inches, net weight 55 pounds, volume 0.98 cu ft. Packed for domestic or export shipment: total weight 85 pounds, total volume 1 cu ft. Shipped in 1 package.