

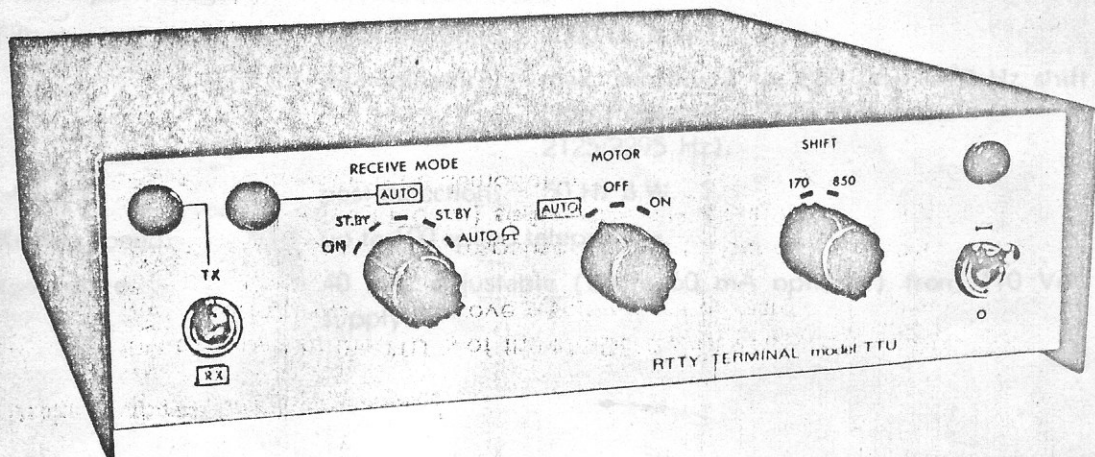
TELE-TRADING

12, YORKVEJ
ØLSTYKKE
DENMARK

TTU

SOLID STATE FSK CONVERTER/KEYER

The model - TTU - FSK terminal unit is completely self contained and provides all the necessary interface circuitry between a single sideband, FM or AM transceiver and a teleprinter machine used in RTTY operation.



Design features

- ☆ The converter part of the TTU is of the FM-DEMODULATOR type with pre-limiter and post-detector filters to improve reception under marginal signal conditions.
- ☆ The demodulator discriminator response is selectable for optimum reception of normal (850 Hz) or narrow (170 Hz) shifts. However all shifts from approx. 1000 Hz and down to a few Hz can be demodulated.
- ☆ A built-in AUTO RECEIVE circuit prevents the machine from running open when no RTTY signal is present.
- ☆ The teleprinter motor can be operated from the AUTO RECEIVE circuit - the motor switch-off is delayed.
- ☆ Loop current supply is included, - adjustable from 20 to 60 mA.
- ☆ Outputs from demodulator for oscilloscope cross-pattern monitoring.
- ☆ The keyer section generates standard AFSK tones: 2125 and 2975 Hz or 2125 and 2295 Hz, normal or narrow shift as well as binary (ON/OFF) keying - normal or reversed - for FSK of HF-transmitter oscillators.
- ☆ Operating controls are located on the front panel, - facilities are provided for operating the transmit/receive function.
- ☆ High quality components and materials are used in the construction. The cabinet is flat styled, - colours: semi gloss black and anodized blank aluminium.

TECHNICAL SPECIFICATIONS

Converter section

Input impedance: 5 and 500 Ohm.

Min. input voltage
for limiting action: 0.1 resp. 2 mVolt (2500 Hz).

Max. input voltage: 15 Volt (500 Ohm).

Filters:

- input bandpass: 1000 Hz B.W.
- discriminator: max. sensitivity for 850 resp. 170 Hz shift
(top frequencies 2125/2975 resp.
2125/2295 Hz).
- post detection: 50 Hz B.W.

Keying speed: up to 100 speed teleprinters.

Loop drive: 40 mA, adjustable (20 to 60 mA optional) from 110 Volt supply.

Keyer section

Output tone frequencies: 2125/2975 Hz or 2125/2295 Hz.

Frequency shift: 850 or 170 Hz.

Keying speed: up to 100 WPM.

Output level: 30 mVolt from 200 Ohm source.

CW identification: approx. 115 Hz change upwards on MARK AFSK frequency.

FSK: 0/1 mA DC, normal or reversed shift for Ge-diode switching of HF-oscillators.

Mains supply: 110/220 Volt AC - 50/60 Hz - 20 VA.

Dimensions: H×W×D: 86×271×287 mm
3³/₈×10¹¹/₁₆×11¹/₄ inches.

Weight: 4.4 kilos ~ 9.6 lbs.