

Model 1285

HF Smart FSK Modem

- **Low Cost, Reliable, Field Proven Modem**
- **Optional Forward Error Correction**
- **Remote Controllable**
- **TADIL-B Operation**
- **Optional Automatic Link Establishment (ALE)**
- **AC/DC Power Options**
- **19 inch Rack Mountable**

nsgdata.com's affordable Model 1285 is a versatile FSK Modem with selectable forward error correction and the ability to handle data rates from 50 to 1200 baud. The modem is user-friendly with an easy to use, menu driven command set. It operates in synchronous and asynchronous (5, 6, 7, and 8 bit) modes.

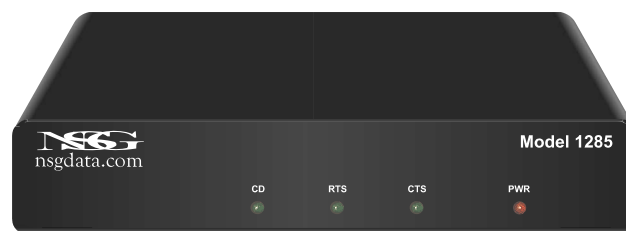
Data regeneration and clock recovery are provided for the receive function. The modem can use an external clock or use an internally generated clock for the transmit function. The modem can also be operated in full or half duplex mode depending on the interface requirements.

The Model 1285 is an ideal solution for those who wish to take advantage of the latest in technology at an affordable price. The basic modem provides Frequency Shift Keying (FSK) with a unique, sophisticated forward error correction system to assist in producing an error free data stream, even under difficult conditions.

ALE Option

The Automatic Link Establishment(ALE) option to the Model 1285 takes the difficulty out of the HF radio linking process. ALE takes control of the radio and automatically calls a distant station on all available frequencies. The quality of each channel is evaluated and the best one is selected for passing voice or data traffic when required. The ALE option continually monitors the quality of all available channels so that the best communications channel is always immediately available to the operator. Other ALE features include:

- Specific station or group of stations calling
- Exchange link quality information
- Order wire mode allowing computer to computer, or keyboard to keyboard communication.



1285 Specifications

Model 1285

Standard

Dynamic Range (Demodulator):
+3 to -30 dBm into 600 ohms

Input Frequency Range
300 to 3000 Hz

Shift:
60 to 2700 Hz

Data Rate:
50 to 1200 Baud

Data Input/Output:
RS-232C Compatible, Synchronous and Asynchronous 5, 6, 7, and 8 bit.

Output Level (Modulator):
Adjustable from +3 dBm to -20 dBm into 600 ohms

Duplex Operation:
Full and Half.

Remote Control Data Rate:
Auto Baud from 300 to 19,200 bps.

Remote Control Input/Output:
RS-232C Compatible - Async 8 bit.

Options

19" Rack Mount Adapter - 1 position
19" Rack Mount Adapter - 2 position
AC Power Supply

Selectable Modes

Baseline:
HF Modem, 1200 Baud (SC845-1)

ALE :
HF Modem with ALE (SC846-1)

ALE Protocol:
FED-STD-1045/MIL-STD-188-141A

Power:
Source: 115 Vac 60Hz
Optional 230 Vac 50Hz
Optional 5.0 Vdc
Dissipation: 10 Watts

Physical

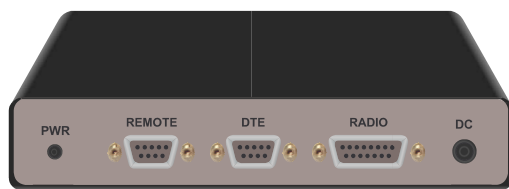
Size: 1.5"H x 7.25"W x 9.5" D
Weight: 8.5 lbs

Environmental

Temperature:
- Operating: 0 to +50 degrees C
- Storage: -40 to +75 degrees C

Humidity:
- 0 to 95% non-condensing

Altitude:
- Operating: 0 to 15,000 feet
- Storage: 0 to 25,000 feet



ALE Option

- **Reduces the skill level required to operate HF radio circuits**
- **Reduces the time required to establish an HF radio link**
- **Offers a more efficient use of the HF spectrum**
- **Allows data to be transmitted on HF channels which are unusable for voice traffic**
- **Provides FED-STD-1045 and U.S. MIL-STD-188-141A interoperability**