

DDS/MR1

Specifications

Data Rates: 64, 56, 19.2, 9.6, 4.8, 2.4, 1.2 kbps

Operating Modes: DDS full duplex multipoint; DDS full duplex point-to-point; 4-wire, full duplex; 4-wire, half duplex or simplex

Operating Range:

Data Rate	Wire Gauge	Distance (feet)	dB
64 kbps	19	54 K	40
64 kbps	26	16 K	40
56 kbps	19	61 K	43
56 kbps	26	18 K	43
19.2 kbps	19	77 K	43
19.2 kbps	26	27 K	43
9.6 kbps	19	90 K	40
9.6 kbps	26	33 K	40
4.8 kbps	19	116 K	40
4.8 kbps	26	43 K	40
2.4 kbps	19	150 K	40
2.4 kbps	26	57 K	40
1.2 kbps	19	158 K	35
1.2 kbps	26	60 K	35

Data Format: Serial binary, sync or async

Data Encoding: Bi-Polar, Return to Zero per Bell System Publication 62310

Transmission Facility: Unloaded metallic circuits; 19 to 26 gauge

System Impedance: Line receiver input impedance: 135 ohms \pm 10%; Transmit pair output impedance: 135 ohms \pm 10%

Output Signal: 0.7854 \pm .05 V across 135 ohms @ 9.6 kbps; 1.4 \pm .1 V across 135 ohms at all other rates

RTS-CTS Delay:

Data Rate	Delay
64 kbps	0.35 \pm .02 ms
56 kbps	0.40 \pm .02 ms
19.2 kbps	1.00 \pm .05 ms
9.6 kbps	2.00 \pm .10 ms
4.8 kbps	4.00 \pm .20 ms
2.4 kbps	8.00 \pm .40 ms
1.2 kbps	16.00 \pm .80 ms

When the RS-232 interface card is installed, optional RTS-CTS delays are also available. They are as follows: 24 ms, 30 ms and 60 ms.

DTE Interface: Interchangeable: CCITT V.35, EIA RS-232C, or RS-530/RS-449

Power Requirements: 115 VAC, 60 Hz, 5W

Environmental: 0 to 50° C, 95% humidity, non-condensing

Mechanical: Width: 7.0 inches; Height 2.25 inches; Depth: 9.6 inches; Weight: 2.9 lbs.

Certification: Conforms to the rules and regulations of FCC Part 15 applicable to DDS products

Easy-to-use controls and indicators For easy set-up and use the DDS/MR1 can be completely programmed using three front panel keys and a liquid crystal display. Pressing the keys in response to menu prompts programs all parameters and strap options. The display is also used for system status, keeping the user informed on call status and operations.

Controls:

Yes: Pressing this push-button gives an affirmative answer to question displayed on the LCD.

No: Pressing this push-button bypasses the displayed question or exits a front panel initiated test

Home: Pressing this push-button toggles between Data and Set mode.

Indicators

TM (Test Mode): This LED is on when the unit is in a test mode or blinks when the unit is in a remotely activated test mode.

OS (Out-of-Service): This LED is on when the unit receives the Out-of-Service code.

NS (No Signal): This LED is on to indicate a loss of signal.

CS (Clear to Send): This LED is on when the DSU transmitter is ready to accept data from the terminal.

RD (Receive Data): This LED is on when space data is being received.

TD (Transmit Data): This LED is on when space data is being transmitted.