DIAGNOSTX™

A Long-Range, Over-The-Air Radio Waveform Analyzer

DX-2002 Series Instrument Product Sheet

The DiagnostX DX-2002 Series instrument is a long-range, over-the-air radio waveform analyzer that measures a radio's alignment and operating characteristics in real time without any user intervention or impact on the radio system.

DX-2002 Series Features

- Monitors the Base Station Receive Control Channel (Inbound) Frequency
- Protocols: P25 Trunked and P25 Conventional, Legacy, DMR, NXDN and TRBO
- AFC Meter Feature: Included
- Encryption: AES-256
- P25 System Metrics:
  - RF Frequency Error
  - Symbol Frequency Error 600 and 1800
  - Modulation Fidelity
  - Average Symbol Deviation
  - Emission Mask Conformance
  - BER, RSSI, and SNR
- Available Frequency Bands: VHF 136-174; UHF 380-430; UHF 450-470; UHF 470-512; 700; 800; 900 MHz
- Installation: Two (2) connections - universal AC power and an antenna.
  Can connect to the Rx antenna multicoupler
- One DX-2002 instrument can be networked with up to three (3) NX-200 remote receivers to provide system-wide coverage. All data is stored in a unified database accessed through the DiagnostX Viewer (DV).
- Autonomous - DiagnostX is non-intrusive and has no impact on the LMR network
- Optional DiagnostX Viewer (DV) licenses can be installed on any computer on the network

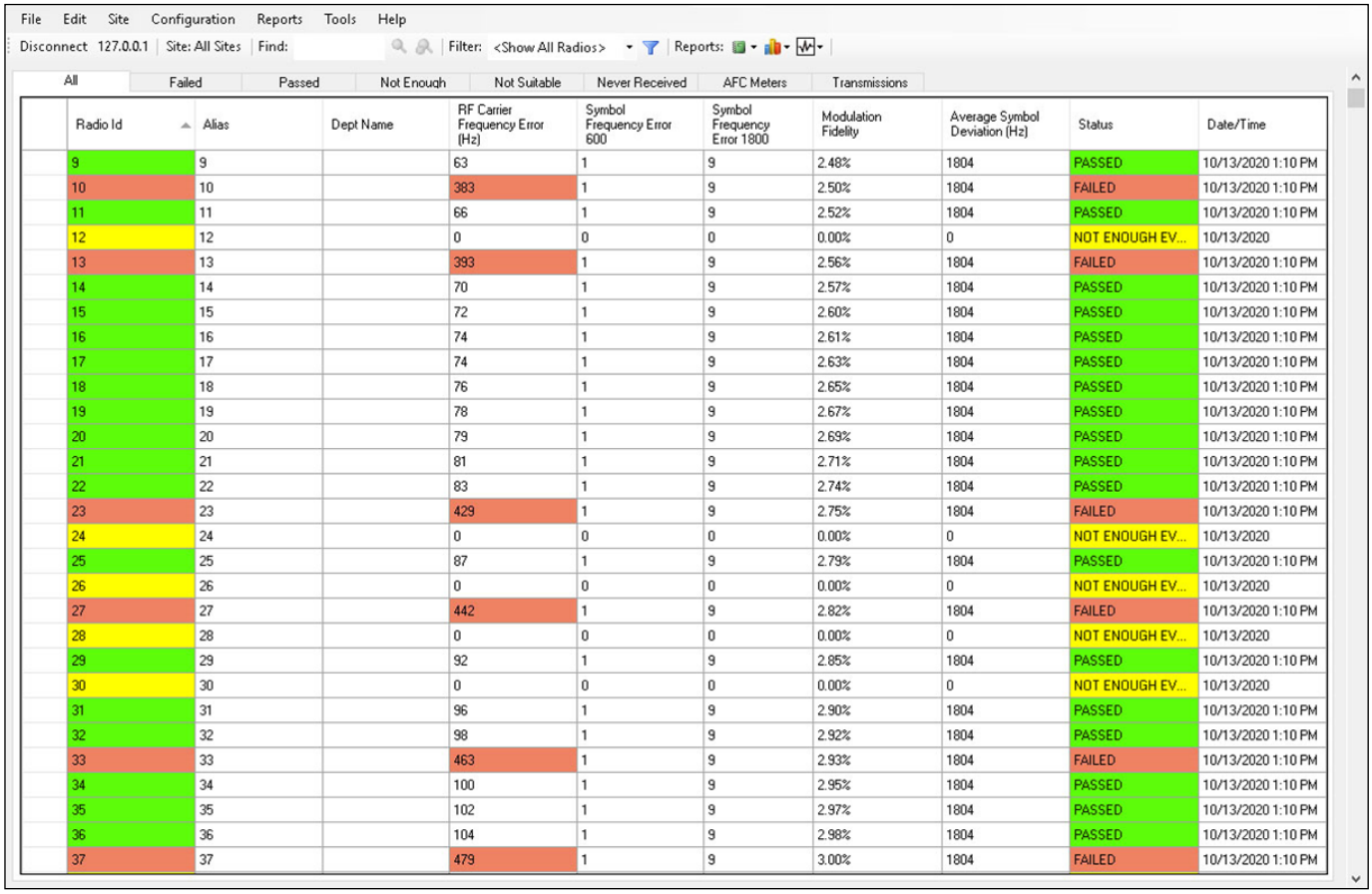
DX-2002 Specifications

DIMENSIONS	2U	3.46" H x 19" W x 18.9" D
WEIGHT	~ 27 lbs.	
POWER	AC Voltage	100-240VAC @50-60Hz
NETWORK CONNECTIVITY	RJ45	Gigabit Ethernet
PERIPHERALS	USB and PS2	* Mouse and Keyboard

* Not Supplied

DX-2002a	Single-Protocol / Single-Band
DX-2002b	Single-Protocol / Dual-Band
DX-2002c	Dual-Protocol / Single-Band
DX-2002d	Dual-Protocol / Dual-Band
DX-2002e	Dual-Protocol / Tri-Band

DiagnostX Viewer (DV) Report Sorted by Radio ID


File Edit Site Configuration Reports Tools Help

Disconnect 127.0.0.1 | Site: All Sites | Find: | Filter: <Show All Radios> | Reports:

All | Failed | Passed | Not Enough | Not Suitable | Never Received | AFC Meters | Transmissions

Radio Id	Alias	Dept Name	RF Carrier Frequency Error (Hz)	Symbol Frequency Error 600	Symbol Frequency Error 1800	Modulation Fidelity	Average Symbol Deviation (Hz)	Status	Date/Time
9	9		63	1	9	2.48%	1804	PASSED	10/13/2020 1:10 PM
10	10		383	1	9	2.50%	1804	FAILED	10/13/2020 1:10 PM
11	11		66	1	9	2.52%	1804	PASSED	10/13/2020 1:10 PM
12	12		0	0	0	0.00%	0	NOT ENOUGH EV...	10/13/2020
13	13		393	1	9	2.56%	1804	FAILED	10/13/2020 1:10 PM
14	14		70	1	9	2.57%	1804	PASSED	10/13/2020 1:10 PM
15	15		72	1	9	2.60%	1804	PASSED	10/13/2020 1:10 PM
16	16		74	1	9	2.61%	1804	PASSED	10/13/2020 1:10 PM
17	17		74	1	9	2.63%	1804	PASSED	10/13/2020 1:10 PM
18	18		76	1	9	2.65%	1804	PASSED	10/13/2020 1:10 PM
19	19		78	1	9	2.67%	1804	PASSED	10/13/2020 1:10 PM
20	20		79	1	9	2.69%	1804	PASSED	10/13/2020 1:10 PM
21	21		81	1	9	2.71%	1804	PASSED	10/13/2020 1:10 PM
22	22		83	1	9	2.74%	1804	PASSED	10/13/2020 1:10 PM
23	23		429	1	9	2.75%	1804	FAILED	10/13/2020 1:10 PM
24	24		0	0	0	0.00%	0	NOT ENOUGH EV...	10/13/2020
25	25		87	1	9	2.79%	1804	PASSED	10/13/2020 1:10 PM
26	26		0	0	0	0.00%	0	NOT ENOUGH EV...	10/13/2020
27	27		442	1	9	2.82%	1804	FAILED	10/13/2020 1:10 PM
28	28		0	0	0	0.00%	0	NOT ENOUGH EV...	10/13/2020
29	29		92	1	9	2.85%	1804	PASSED	10/13/2020 1:10 PM
30	30		0	0	0	0.00%	0	NOT ENOUGH EV...	10/13/2020
31	31		96	1	9	2.90%	1804	PASSED	10/13/2020 1:10 PM
32	32		98	1	9	2.92%	1804	PASSED	10/13/2020 1:10 PM
33	33		463	1	9	2.93%	1804	FAILED	10/13/2020 1:10 PM
34	34		100	1	9	2.95%	1804	PASSED	10/13/2020 1:10 PM
35	35		102	1	9	2.97%	1804	PASSED	10/13/2020 1:10 PM
36	36		104	1	9	2.98%	1804	PASSED	10/13/2020 1:10 PM
37	37		479	1	9	3.00%	1804	FAILED	10/13/2020 1:10 PM

All models include an antenna, a multicoupler cable, and a one-year manufacturer warranty.

Contact LocusUSA for more information or a quote at (321) 727-3077 or sales@locususa.com.

Patent Nos.
United States: #8,565,096, #8,600,371, #8,825,042, #8,948,022, #9,282,482, #9,432,866, #9,681,321, #9,743,302, #9,961,578, #10,200,902, #10,244,417, #10,609,585, #10,659,982
Australian: #2010235881, #2012253596 #2015203442 • Canadian: #2,746,238 • European: EP 2707798 B1 • Other patents pending.

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