Multifunctional Measurement Station

Innovative Solution LLC

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Overview

The Multifunctional Measurement Station (MMS) software is based on the NI PXI platform. Software is developed in the LabVIEW graphical programming environment. It has a simple and intuitive user interface.

The software supports 10 modulation types: 3 digital and 7 analog, providing generation and analysis of main types of modulated signals.

This software will help the users to gain a better understanding of the modulation/demodulation principles.

Features

- 10 modulation types
- Generation and analysis of modulated RF signals
- Measurement of amplitude-frequency characteristics
- Signal spectrum representation
- Imitation of noises
- Representation of experimental results on the screen (graphs, scope signals, numeric indicators)

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Hardware and software

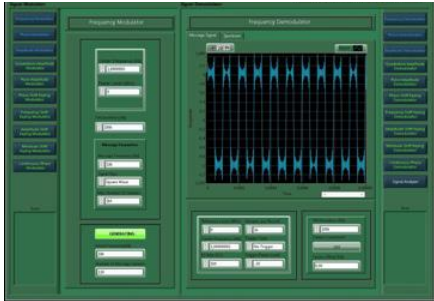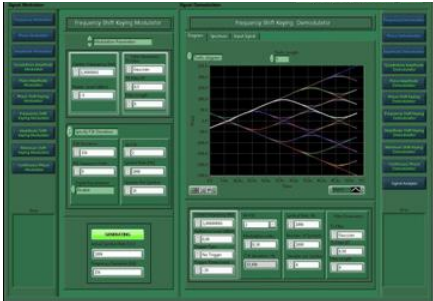| Hardware	Software
NI PXI platform	Windows 7 (or higher)
	LabVIEW 13 (or higher)
	NI-RFSG
	NI-RFSA
	NI modulation toolkit
	NI spectral measurements toolkit

List of modulations

1. Frequency Modulation
2. Phase Modulation
3. Amplitude Modulation
4. Quadrature Amplitude Modulation
5. Pulse Amplitude Modulation
6. Phase Shift Keying Modulation
7. Frequency Shift Keying Modulation
8. Amplitude Shift Keying Modulation
9. Minimum Shift Keying Modulation
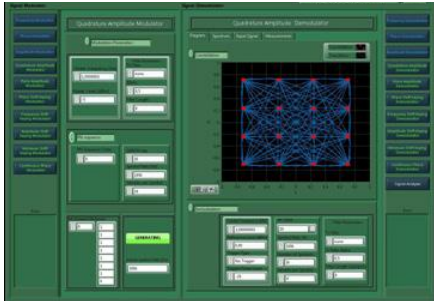10. Continuous Phase Modulation
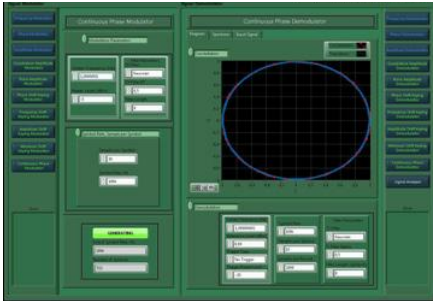
Continuous Phase Modulator

Frequency Modulator

Frequency Shift Keying Modulator

Quadrature Amplitude Modulator

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