

# SUBSTATION AUTOMATION TRAINER



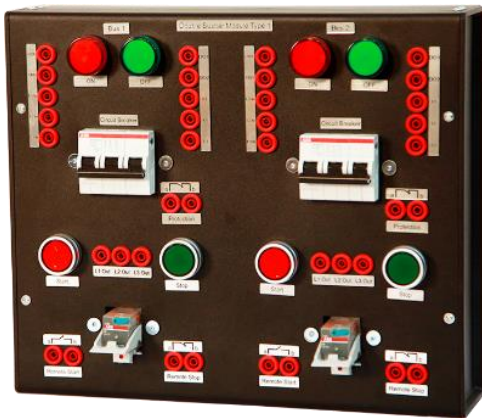
## Overview

The Substation Automation Trainer is a small model of a distribution substation. It includes small scale modules for switchgears, busbars, circuit breakers, transformers and loads. It allows to study basics of substation automation system. It allows to investigate how the monitoring and control (RTU) system is implemented in hardware using NI myRIO platform. The educational trainer is a part of a real SCADA system.

## Features

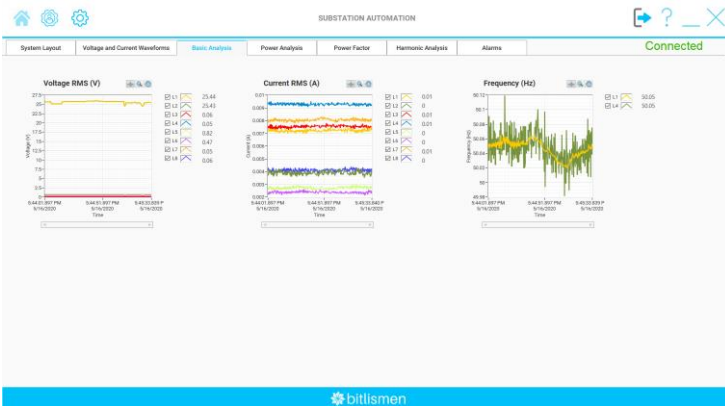
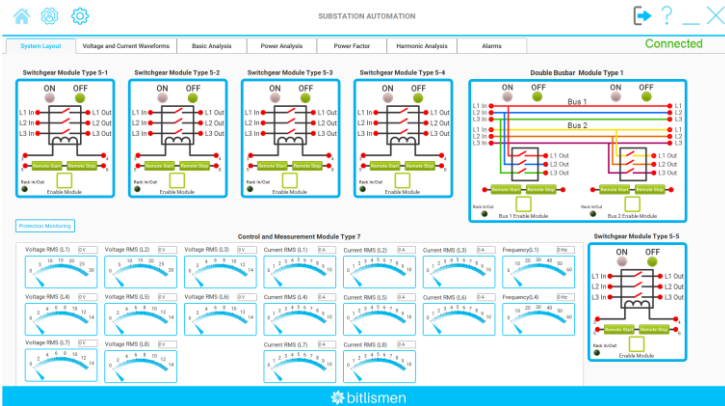
- ✓ Remote monitoring and control of switchgears
- ✓ Remote monitoring and power quality analyses
- ✓ Remote monitoring of protection
- ✓ Alarms & Events handling
- ✓ Real-time data monitoring
- ✓ Communication through DNP3.0 protocol

## Substation Automation Trainer Hardware Pictures





# Substation Automation Software Screenshots



System Layout | Voltage and Current Waveforms | Basic Analysis | Power Analysis | Power Factor | Harmonic Analysis | Alarms | Connected

PRIORITY	SITE NAME	ALARM AND EVENT NAMES	AREA	DESCRIPTION	THRESHOLD	SET VALUE	SET USER	SET TIME	ACK USER	ACK COMMENT	ACK TIME	CLEAR TIME
0	Substation 4	ControlAndMeasurementOut	Substation	Value Change off	0.000000	0.000000	SubstationAdmin	14 May 2023 17:02:41				
0	Substation 4	ControlAndMeasurementOut	Substation	Value Change off	0.000000	0.000000	SubstationAdmin	14 May 2023 17:02:41				
0	Substation 4	ControlAndMeasurementOut	Substation	Value Change off	0.000000	0.000000	SubstationAdmin	14 May 2023 17:02:41				
0	Substation 4	ControlAndMeasurementOut	Substation	Value Change off	0.000000	0.000000	SubstationAdmin	14 May 2023 17:02:41				
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0	Substation 4	ControlAndMeasurementOut	Substation	Value Change off	0.000000	0.000000	SubstationAdmin	14 May 2023 17:02:41				

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