

TRNSYS 16 Documentation

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01. Getting Started

This manual explains what TRNSYS is and what programs make the TRNSYS suite. You will learn how to install TRNSYS, run examples and create simple projects.

02. Using the Simulation Studio

This manual describes the TRNSYS Simulation Studio in detail. This visual interface is used to create and simulate projects. It can also help you create new components.

03. Standard Component Library Overview

This manual gives an overview of the available components in the standard TRNSYS library.

04. Component Inputs – Outputs – Parameters

This manual gives a detailed list of inputs, parameters and outputs for all components in the Standard Library.

05. Component mathematical reference

This manual gives the mathematical description of all components available in the Standard TRNSYS library

06. Multizone Building (Type56 – TRNBuild)

The TRNSYS multizone building (Type 56) and its visual interface (TRNBuild) are described in detail in this manual.

07. TRNEdit : Editing the Input File and Creating TRNSED Applications

This manual explains how to use TRNEdit to edit TRNSYS input files, create redistributable applications (known as TRNSED apps.) and run parametric studies. This manual includes a description of the input file syntax

08. Programmer's Guide

This user guide describes how the kernel and the components interact. It provides detailed instructions to create components and to easily update TRNSYS 15 components.

09. Weather Data

This manual describes the weather data distributed with TRNSYS 16. More than 1000 files in more than 150 countries are available.

TRNSYS Add-ons

A1. TRNFlow

TRNFlow is a modified version of the multizone building model, Type 56, which integrates the COMIS engine for airflow simulation.

A2. TESS Libraries

The TESS Libraries V 2.0 offer numerous additional components for HVAC systems, solar thermal systems, ground-coupled buildings, and more...

A3. SimCad

SimCad for TRNSYS is an Object Oriented CAD tool designed specifically for generating building description data for thermal simulation.

