



Fine Tooling

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FT5450 Product Manual

The 2-channel current was collected synchronously

The maximum sampling rate is 2KS/s, 24bit



History list

Version	Date	Content
1.0	2023/3/30	First release

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Products Feature

- 24bit resolution analog acquisition, up to 2KSP/S analog input sampling rate
- Rang: 1mA, 10mA, 1A, 20A
- 2 channel measurements
- Electrical isolation between channels
- Support FTStudio, LabVIEW, Visual Studio and other software for secondary development

Overview

FT5450 adopts high precision integrated digital to analog converter, the resolution is up to 24 bits, and the test accuracy is better than 0.01%. It can meet the high measurement requirements of the industrial field, experimental data recording, power monitoring and process control signal acquisition.

System Support: Windows XP/Win7/10 Linux

Software compatible: LabVIEW Visual Studio FT Studio

Measurement range and accuracy

All the following measurements were taken at room temperature 25 ° C, unless otherwise noted.

Object of measurement	Range of measuring	Maximum input range	Highest resolution	Sampling resistance (Ω)	Accuracy of measurement
current	20A	-22A ~ +22A	200uA	0.001	0.01%Fs
	1A	-2.5A ~ +2.5A	10uA	0.1	0.01%Fs
	10mA	-30mA ~ +30mA	1 μ A	2	0.01%Fs
	1mA	-2.5mA~ +2.5mA	1 μ A	100	0.01%Fs

Technical specification

Items	Description
Number of board channels	2
Sampling rate	2KSP/S
ADC resolution	24BIT
Range of measuring	10mA,1A,10A,20A
Connector specification	Head of banana

Trigger mode	Software trigger
Work environment	temperature: -40°C~85°C, Relative humidity: 10%~90%RH
Storage environment	temperature: -40°C~85°C, Relative humidity: 5%~95%RH No condensation
Dimensions	W*D*H ≈ 24mm*155mm*130mm
weight	90g

Use of the free debugging tool HWSuit

The HWSuit tool can be downloaded from the official website of www.finetooling.com

HWSuit version: Please download HWSuit V3.5.8.0 or later.

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