

# **Model: UT-5524A**

**(Product Name: 4-channel digital voltmeter)**

# **Datasheet**

## 1. Overview

UT-5524A is a 4-channel digital voltmeter with independent input of 4-channel voltage. It adopts multiple communication methods and can be easily connected with a computer to form a remote voltage acquisition system in various fields such as laboratories and product quality inspections. It can also form an industrial production process monitoring system.

## 2. Major Functions & Features

- Power aging voltage detection
- Multiple voltage signal monitoring
- Industrial automation measurement
- Laboratory automation control
- Multi-channel conversion measurement

## 3. Technical Parameters

Model	UT-5524A
Operating voltage	9-40V (DC)
Operating current	110ma@9Vmax
Operating humidity	5~95%
Operating temperature	-40~+85°C
Storage temperature:	-40~+85°C
Sampling frequency	16.6HZ
Resolution	24 bits
Acquisition accuracy	0.5%
Input channel	4-channel differential input
Input impedance	10M
Measuring range	Voltage 0-200V
Communication method	RS-485/422
Communication protocol	MODBUS-RTU
<b>Lightning surge</b>	
Power supply	Differential mode 1KV
RS-485/422	600W protection

## 4. Indicator definitions

Name	Color	Function	Status
PWR	Red	Power Indicator	On
TXD	Green	Send indicator light	When the module sends data externally, the indicator light is on; when Send is completed, it goes out.
RXD	Yellow	Receive indicator light	When the module receives external data, the indicator light is on; when Receive is completed, it goes out.

## 5. Pin map

Pin no.	Name	Description	Pin no.	Name	Description
1	VIN4+	Channel 4 positive	11	GND	Power supply negative
2	VIN4-	Channel 4 negative	12	+VCC	Power supply positive
3	VIN3+	Channel 3 positive	13	GND	Power supply negative
4	VIN3-	Channel 3 negative	14	GND	Power supply positive
5	VIN2+	Channel 2 positive	15	RESET	Reset (active low)
6	VIN2-	Channel 2 negative	16	GND	Power supply negative
7	VIN1+	Channel 1 positive	17	RXD-	422 receive-
8	VIN1-	Channel 1 negative	18	RXD+	422 receive+
9	NC	Dangling	19	T/R-	485-, 422 send-
10	NC	Dangling	20	T/R+	485+, 422 send+

## 6. Appearance



UT-5524A