Model: UT-5524A

(Product Name: 4-channel digital voltmeter)

Datasheet

UTEK TECHNOLOGY

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 a 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℃
Storage temperature:	-40~+85℃
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
Lightning surge	
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