



V 1.1

# RS232-TTL-10 Level Shifter Manual

南京润泽流体控制设备有限公司  
NANJING RUNZE FLUID CONTROL EQUIPMENT CO.,LTD

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# Chapter 1 Product Introduction

## 1.1 Company Overview

Nanjing Runze Fluid Control Equipment Co., Ltd., established in 2014, is a national high-tech enterprise focusing on R&D and production of fluid accessories for numerous analytical instruments. We engineer, manufacture and market differentiated standard products such as syringe pumps, multiport valves, peristaltic pumps, gastight syringes, plastic fittings, etc. We persevere in providing our customers with best quality and service in the fields of environmental monitoring, biopharmaceuticals, medical equipment, industrial automation and laboratory instruments, etc.

In past years, we have accumulated rich technical and practical experience that bring us honors of ISO9001, National High-tech Enterprise, Jiangsu Province Private Science and Technology Enterprise, 5A Bank Credit Assessment, 44 technical patents and software copyright including 2 invention patents, 27 utility model patents, 13 design patents, 2 software copyright.

RUNZE attracted experienced talents with strong capability on integrating software and hard-ware at electronic research, mechanical design, mold manufacturing. Continuous and substantial investment in research and development, which enabled the company to obtain a huge advantage in the manufacture and sales of analytical instrument accessories. RUNZE Technology Center has a reliable EMC laboratory and a series of advanced processing equipment and testing instruments, such as imported white light interferometer, Keens plane rapid detector, five-axis machining center, high-precision nano-grinding machine, etc., Continuous and substantial investment in research and development, which enabled the company to obtain a huge advantage in the manufacture and sales of analytical instrument accessories.

## 1.2 Product Overview

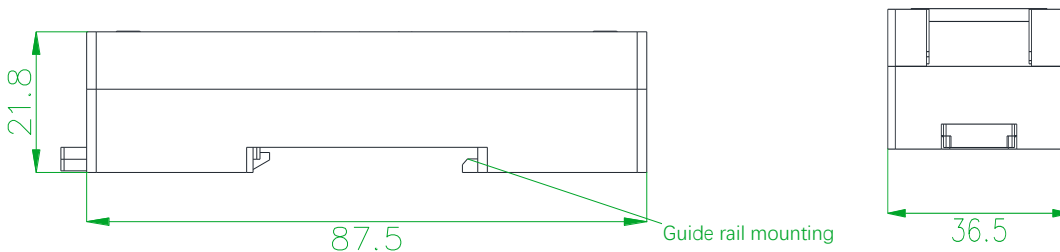
The RS232-TTL-10 is specifically designed for level shift between PC serial ports and peripheral devices, and can also be widely used for serial debugging of microcontrollers and embedded systems. It is an essential test tool for electronic engineers.

## Chapter 2 Main Technology and Function Introduction

### 2.1 Performance parameters

- 1) Transmission medium: Wire
- 2) Transmission rate: 120kbps
- 3) Operating environment: 0-70°C
- 4) EMC performance: Surge (power input):  $\pm 2\text{KV}$   
 Fast pulse group (power input and communication side):  $\pm 1\text{KV}$   
 Voltage dips (80% dip, low resistance interruption and high resistance interruption): 1S

### 2.2 Product Dimensions



### 2.3 Port Definition

7pin Terminal	Property	Wiring Requirement
+24V	+24V (supply input)	Connect to +24V Switch Mode Power Supply
GND	Operating ground (supply input)	Connect to +24V Switch Mode Power Supply GND
PE	Protective ground	Connect to a reliable equipment earth in harsh environment
PE	Protected ground	When the working environment is harsh, this point is connected to a reliable equipment earth
TX (232-TX)	RS232 signal output	RS232 signal receiving terminal
RX (232-RX)	RS232 signal input	RS232 signal output terminal
GND	Operating ground	RS232 operating ground
5 pin Terminal	Property	Wiring Requirement
+5V	+5V (back up)	Reserved
RXD	Signal input for TTL	Connected to the TTL output control
TXD	Signal output for TTL	Connected to TTL input receiver
GND	Operating ground	Connected to TTL operating ground
PE	Protection ground	Reserved

## 2.4 Wiring Instructions



## Chapter 3 Version Description

Version	Description	Release Time
V1.0	Initial version	2022.6.22
V1.1	Update contacts	2022.6.28

## Chapter 4 Technical Service

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