

TR-DP

User Manual

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Symbol Definition	
	WARNING: Indicates information that a potentially hazardous situation which, if not avoided, could result in serious injury or death.
	RISK OF ELECTRICAL SHOCK: Indicates information that Potential shock hazard where HAZARDOUS LIVE voltages greater than 30V RMS, 42.4V peak, or 60V DC may be accessible.
	ESD HAZARD: Indicates information that Danger of an electro-static discharge to which equipment may be sensitive. Observe precautions for handling electrostatic sensitive devices
	ATTENTION: Identifies information that requires special consideration.
	TIP: Identifies advice or hints for the user.

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TR-DP

Section 1 Overview

TR-DP provides active terminal for the PROFIBUS-DP network segment. After using this product, you can shut down, disassemble or replace bus devices without interfering with bus communication.

TR-DP supports dual power supply redundant power supply, and each power supply corresponds to a PWR indicator to indicate the power supply status. An ACT indicator is used to indicate the bus communication status.

TR-DP supports DIN rail installation.

Section 2 Structure

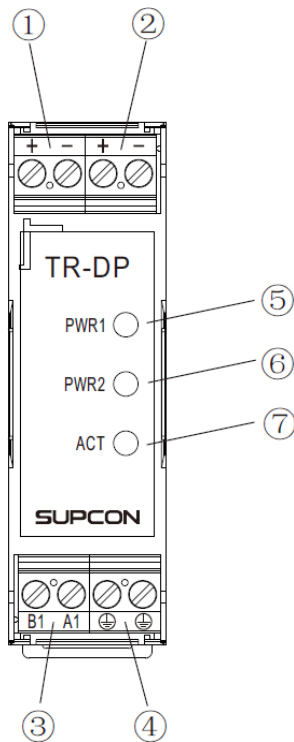


Figure 2-1 Product structure

- ① Subtitle (power supply 1 input other may be inserted in the outer header supply an input terminal)
- ② Power supply 2 input terminals
- ③ PROFIBUS connection terminal
- ④ Ground terminal
- ⑤ Power supply 1 diagnostic indicator, green light is normally ON: power supply is normal; green light is normally OFF: power supply is abnormal.
- ⑥ Power supply 2 diagnostic indicator, green light is normally on: power supply is normal; green light is normally off: power supply is abnormal.
- ⑦ Bus communication status indicator, the green light is normally on: there is communication data, the green light is off: idle.

Section 3 Technical Parameters

Parameter Item		Specifications
Power supply	Rated voltage	24V DC
	Input voltage range	(20 – 28) V DC
Maximum working current		22mA
Isolation voltage		1500VDC
Transmission rate		9.6kbps –12Mbps
Cable specifications		(0.2 –2.5) mm ²
Installation method		35mm DIN rail
Dimensions (height × width × depth)		(75×22.6×50) mm
Temperature	Operating temperature	(-20 – 70)°C
	Storage temperature	(-40 – 85)°C
Humidity	Working humidity	(10% – 90%) RH , no condensation
	Storage humidity	(5% – 95%) RH , no condensation

Section 4 Revision

Table 6-1 Retrofit list of the version

Document Version	Model	Remarks
V1.0 (20211216)	TR-DP V10.00.00	The first edition.