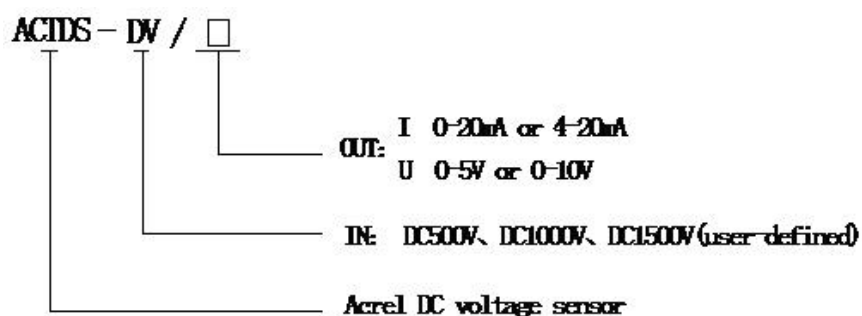


DC voltage sensor

ACTDS series DC voltage sensors are the measuring module that converts the measured DC voltage into the proportional DC current or DC voltage signal according to the optical isolation theory. The input side is highly insulated from the output side. They feature the high accuracy, linearity and integration, small size, simple structure, long-term stability and adaptability to various working conditions. They are widely used for system control and detection of electrical equipment in the power, petroleum, mine, chemical, railway, communication, building automation sectors.

- ★ Measurement of DC voltage
- ★ Quick response
- ★ Large overload capacity
- ★ High accuracy
- ★ DIN rail mounting
- ★ 3.5kV insulation between the input side and the output side

1 Explanation for type



Output signal: I 0-20mA or 4-20mA

V 0-5V or 0-10V

Input voltage: DC300V, DC1000V, DC1500V (or customized)

Acrel DC voltage sensor

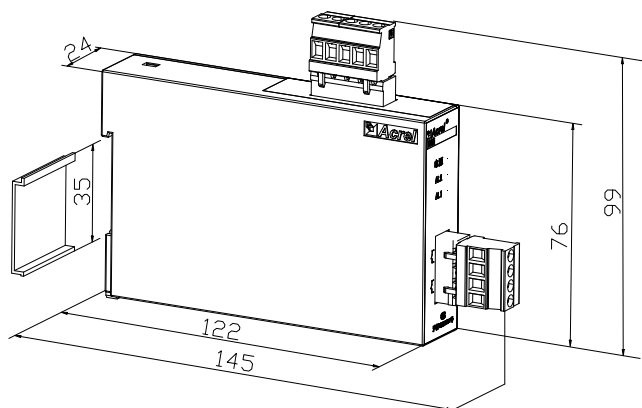
Customized power supply: DC12V, DC15V, DC24V or DC48V

2 Technical data

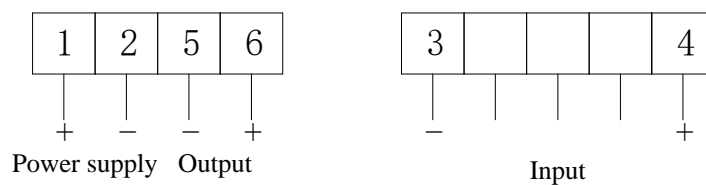
Technical parameters		Index
Input		Rated voltage DC300~1500V
		Measuring voltage range 120% * Vpn
Output	Nominal value	voltage: DC 0-5V、DC0-10V ; current: DC 4-20mA、DC 0-20mA
	Overload protection	Max. output ≤ 150% of full scale

	Load resistance	>5000Ω(voltage output)/<450Ω(current output)
Power supply		DC12V / DC15V / DC24V / DC48V (Optional)
Precision degree		0.5
withstand voltage		Power frequency withstands voltage 3500VAC between input/output and power supply
Linearity error		0.2%
Offset voltage / Offset Current (Ta =+25°C)		50mV(correspond to the voltage output)/80uA (correspond to the current output)
Response time		≤ 30mS
Insulation resistance		>20MΩ@DC500V
Installation method		With guide rail TS35
Ambient conditions	Temperature	Operating temperature:-40°C~+70°C; storage temperature: -40°C~+85°C
	Humidity	≤93%RH, no dew, no aggressive gas
	Altitude	≤2500m

3 Spec. and size (unit: mm)



4 wiring method



Terminal	1	2	5	6	3	4
Idetification	power+	Power GND (G)	output-	output+	input -	input -