

## FUD-I/U

### 4-20mA SINGLE PHASE AC VOLTAGE CURRENT TRANSDUCER

FUD-U/I Single-phase AC Current Transducer is a high accuracy high load capacity ac current to dc current voltage transducer for industrial power control and monitoring. It accepts 0-1AAC,0-5AAC, 0-10AAC or 0-100V AC, 0-220V AC, 0-380V AC, 0-500V AC input, and converts the input into standard 4-20mA, 0-20mA, 0-5V, 0-10V, 1-5V output. Its input, output, power supply are isolated, 220V AC/DC OR 20-60V DC. It have the linear scale Excellent temperature characteristic and good working stability Configuration compactness and briefness. Many transducer application in industrial system in the field.

### Application

1. Oil system;
2. Power plant;
3. Industrial filed;
4. Coal auto system;
5. Rail electrical system;
6. Electricity power company;
7. Metallurgy electrical system;



### Features

1. Standard DIN install ;
2. Excellent linear transducer;
3. AC input range can be customized;
4. DC output range can be customized;
5. Accuracy class can reach 0.2% or 0.5%;
6. Single phase current / voltage transducer;
7. AC current transducer / voltage transducer;
8. 85-265V AC/DC and 20-60V DC power supply optional;

### Technical Index

Technical Index	
Standard	GB/T 13850-1998, IEC688:1992
Accuracy	0.2%, 0.5%
Consumption	≤3VA
Accuracy drift	Annual variation <0.2%
Insulation voltage	AC 2kV/min.1mA (Between input- output/power)
Insulation resistance	≥20MΩ (DC500V)

**Technical Index - Continued**

Surge voltage	5KV (Peak value), 1.2/50 $\mu$ s
Response time	$\leq$ 350ms
Input range	AC 0-10A ,AC 0-500V(Option), 50/60Hz
Absorbed power	<0.5VA/450V, <0.2VA/100V, <0.1VA/5A
Overload	Current: 2 times continuous, 30 times/1s; Voltage: 2 times continuous
Load resistance	Current output: $R_L \leq$ 550 $\Omega$
	Voltage output: $R_L \geq$ 2k $\Omega$
Working environment	Temperature: -10 to +50 $^{\circ}$ C
	RH: 20-90%, without condensation
Storage conditions	Temperature: -40 to +70 $^{\circ}$ C
	RH: 20-95%, without condensation
Installation	35mm DIN sliding-way or M4 screws
Dimension	55mm x 75mm x 120mm

## Model Description

**FUD-Type-Input-Power Supply-Output**

Type	I: Single phase AC current transducer U: Single phase AC voltage transducer Ir: Single phase AC real RMS current transducer Ur: Single phase AC real RMS voltage transducer
AC input	A1: 0-1A, A2: 0-5A, A3: 0-10A. V0: 0-70V, V1: 0-120V, V2: 0-250V, V3: 0-300V, V4: 0-450V, V5: 0-500V.
Power supply	P1: AC 85-265V or DC 100-330V, P2: DC 20-60V.
DC output	O1: 0-5V, O2: 1-5V, O3: 0-20mA, O4: 4-20mA, O5: RS485.

**Example 1: FUD-I-A2-P2-O4**

FUD series single phase AC current transducer	Input: AC0-5A Power supply: AC220V $\pm$ 15% Output: DC4-20mA
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**Example 2: FUD-Ur-V3-P2-O4**

FUD series single phase AC real RMS voltage transducer	Input: AC 0-300V Power supply: AC220V $\pm$ 15% Output: DC4-20mA
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Please check the type, input range, output range and power supply when your order the product.