

## FUD-P3/Q3

### 4-20MA 3P3W ACTIVE AND REACTIVE POWER TRANSDUCER

GFUVE FUD-P3/Q3 three phase active power & reactive power transducers measure power in 3 Phase 3 Wire in balanced or unbalanced electrical systems and converts it to an industry standard output signal which is directly proportional to the measured input. It support RS485 port. It adopted SCM technique; excellent stability. Delivering the direction of measured power accurately, applicable for active/reactive power measurement in 3P3W. These Transducers provide an output which is load independent and isolated from the input. These Transducers can measure both Import and Export of Power. The output can be connected to Controllers, Data-Loggers, PLC's Analog/Digital Indicators, Recorders for display, analysis or control. They are ideal for SCADA, Energy Management, Telemetry for Remote, Local as well as Central Monitoring System.

## Features

1. Standard DIN install 35mm;
2. Excellent linear transducer;
3. 3P3W active power transducer;
4. 3P3W reactive power transducer;
5. Accuracy class can be reach 0.2% or 0.5%;
6. Adopted SCM technique; excellent stability;
7. 220V/5A, 100V/5A, 57.7V/5A, 380V/5A optional;
8. 4-20mA or 4-12-20mA DC signal output optional;
9. 5000 Volts Industry Best Surge Withstand Capability;
10. Applicable for 3P3W active/reactive power measurement;
11. Provides real-time analog signals to SCADA and energy management systems;



## 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;

## Technical Index

Technical Index	
Standard	GB/T 13850-1998, IEC688:1992
Accuracy	0.2%, 0.5%
Consumption	≤5VA
Accuracy drift	Annual variation <0.2%
Insulation voltage	AC 2kV/min.1mA (Between input-output/power)
Insulation resistance	≥20MΩ (DC500V)
Surge voltage	5KV (Peak value), 1.2/50μs
Response time	≤350ms
Input range	AC 0-5A ,AC 0-500V(Optional), 50/60Hz
Absorbed power	Per phase voltage: ≤0.5VA/100V Per phase current: <0.1VA/5A
Overload	Current: 2 times continuous, 30 times/1s;
Load resistance	Current output: RL ≤650Ω Voltage output: RL ≥2kΩ
Working environment	Temperature: -10 to +50°C RH: 20-90%, without condensation
Storage conditions	Temperature: -40 to +70°C RH: 20-95%, without condensation
Installation	35mm DIN sliding-way or M4 screws
Dimension	110mm x 75mm x 66.9mm

## Model Description

FUD-Type-Input-Power Supply-Output	
Type	P3: 3P3W active power transducer Q3: 3P3W reactive power transducer PQ3: 3P3W active and reactive power transducer
AC input	V1: 100V, V2: 0-220V, V3: 270V, V4: 400V A1: 0-1A, A2: 0-5A.
Power supply	P1: AC 85-265V or DC 100-330V, P2: DC 20-60V.
DC output	O1: 0-20mA, O2: 0-±20mA, O3: 4-20mA, O4: 4-12-20mA, O5: 0-1V, O6: 0-±1V, O7: 0-5V, O8: 0-±5V, O9: RS485.

**Example 1: FUD-P3-V1-A2-P2-O4**

FUD series 3P3W active power transducer

Input: AC100V,  $\pm 5A$ ,  $\pm 866W$ 

Power supply: DC 20-60V

Output: 4-12-20mA DC

**Example 2: FUD-PQ3-V1-A2-P2-O4**FUD series 3P3W active and reactive power  
transducerInput: AC100V,  $\pm 5A$ ,  $\pm 866W(\text{var})$ 

Power supply: DC 20-60V

Output: 4-12-20mA DC

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Please check the type, input range, output range and power supply when your order the product.

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