

FUD-PF

SINGLE PHASE/THREE PHASE POWER FACTOR TRANSDUCER 4-20MA

FUD-PF Power factor transducers measure the cosine of the phase angle between the current and the voltage. The transducer output is either a DC 4-20mA or DC voltage 0-5V or 0-10V which is directly proportional to the cosine of the phase angle between the input current and voltage. These can be used for monitoring and optimising power factor correction systems. As the leading product in market, FUD-PF single phase/three phase power factor transducer adopts the SCM as the core with the latest algorithm to achieve precise measurement of power-factor in AC circuit.

Features

1. With the latest algorithm;
2. Standard DIN install 35mm;
3. Excellent linear transducer;
4. 3P3W power factor transducer;
5. 3P4W power factor transducer;
6. 0-1 or 0.5(C)-1-0.5(L) programmable;
7. Single phase power factor transducer;
8. Adopts the SCM as the core technology;
9. 5000 Volts Industry Best Surge Withstand Capability;



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	0.5%
Consumption	≤5VA
Insulation voltage	AC 2kV/min.1mA (Between input- output/power)

Technical Index

Insulation resistance	$\geq 20\text{M}\Omega$ (DC500V)
Response time	$\leq 300\text{ms}$
Input range	AC 0-6A, 0-380V(Option), 50/60Hz
Absorbed power	Per phase voltage: $\leq 0.5\text{VA}/220\text{V}$ Per phase current: $< 0.1\text{VA}/5\text{A}$
Overload	Current: 2 times continuous, 20 times/1s;
Load resistance	Current output: $R_L \leq 650\Omega$ Voltage output: $R_L \geq 2\text{k}\Omega$
Working environment	Temperature: -10 to $+50^\circ\text{C}$ RH: 20-90%, without condensation
Storage conditions	Temperature: -40 to $+70^\circ\text{C}$ 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-PF range-Output

Type	Cos ϕ : single phase power factor transducer 3Cos ϕ : 3P3W power factor transducer 4Cos ϕ : 3P4W power factor transducer
AC input	V0: 57V, V1: 100V, V2: 220V, V3: 270V, V4: 400V, V5: User defined; A1: 1A, A2: 5A
Power supply	P1: AC 85-265V or DC 100-330V, P2: DC 20-60V.
PF range	C1: 0(C)-1-0(L), C2: 0.5(C)-1-0.5(L), C3: 0-1
DC output	O1: 0-5V, O2: 1-5V, O3: 0-20mA, O4: 4-20mA, O5: 0-5V, O6: 4-12-20mA, O7: RS485

Example 1: FUD-Cos ϕ -V2-A2-P1-C2-O6

FUD Single phase power factor transducer	Input: AC220, 5A Power: AC220V $\pm 15\%$ Range: 0.5(C)-1-0.5(L) Output: DC4-12-20mA
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Example 2: FUD-3Cos ϕ -V2-A2-P1-C3-O6

FUD Three phase power factor transducer	Input: AC220, 5A/3P3W Power supply: AC220V $\pm 15\%$ Range: 0-1 Output: DC4-20mA
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Please check the type, input range, output range and power supply when your order the product.