

TE-AI/U Series AC Current/Voltage Transmitter

- The TE-AI/U series AC current/voltage transmitter is used to isolate and convert standard process current/voltage signals from AC transformers to control rooms, PLC/DCS, and display instruments.
- Internally, efficient magnetic and electrical isolation technology is used, with input and output isolated from each other and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and polar temperature drift.
- DIN35mm standard guide rail installation method.

SELECTION TABLE				
TE-AI/U	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-1A
	B			0-5A
	C			0-10A
	D			0-120V
	E			0-250V
	F			0-500V
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TE-AUXXX
 Eg: TE-AU1E1, 1 IN 1 OUT, input: 0-250V, output: DC 4-20mA.
 TE-AIXXX
 Eg: TE-AI1B1, 1 IN 1 OUT, input: 0-5A, output: DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range: AC 0-1A/2A/5A/10A
 Input voltage range: AC 0-30V/50V/120V/250V/500V
 Frequency range: 40Hz-60Hz

Output

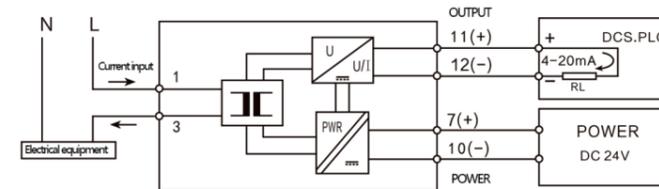
Output signal: 4-20mA; 0-20mA; 0-5v; 0-10v
 Output load resistance: $RL \leq 500\Omega$ (Output is current signal)
 $RL \geq 10K\Omega$ (Output is voltage signal)

Basic Parameter

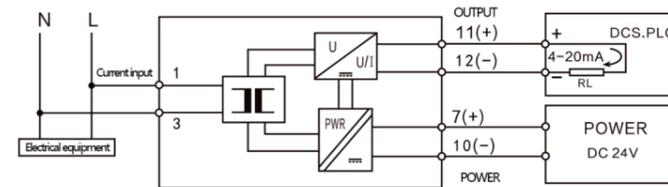
Power supply: DC24V, Voltage range: DC18-36V; or AC 85-265V
 Rated power: $\leq 1W$ (1 IN 1 OUT, DC24V, when 20mA output)
 Basic accuracy: $\leq 0.5\%F.S$
 Temperature drift: 0.02%F.S/°C (-20°C~+55°C)
 Response time: $\leq 400mS$ (0-90%) (TYP)
 Insulation strength: 2000VAC/1min (Between input, output and power)
 Insulation resistance: $\geq 100M\Omega$ (Between input, output and power)
 Working temperature range: -20~+55°C

Electromagnetic Compatibility: According to GB/T 18268.1(IEC61326-1)

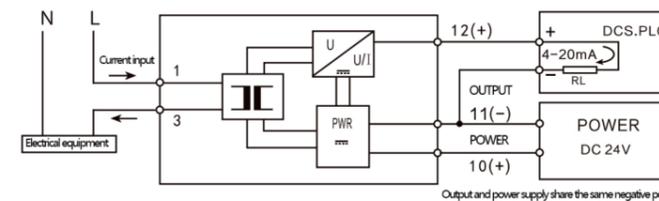
WIRING DIAGRAM



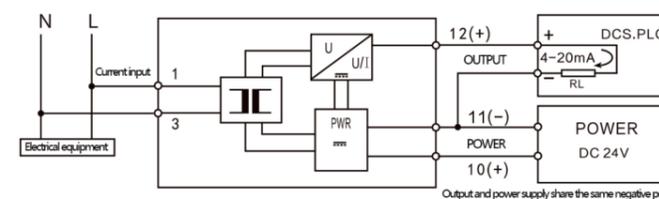
TE-AIXXX



TE-AUXXX



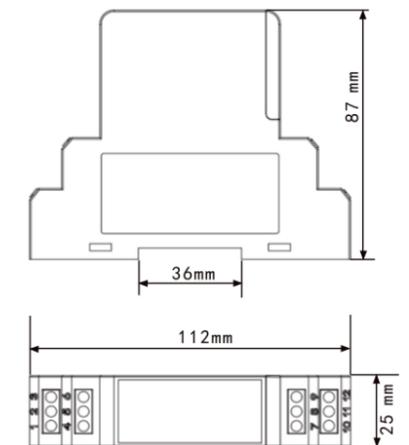
TE-AIXXX-N



TE-AUXXX-N



OVERALL DIMENSION



TE-AI/U Series AC Current/Voltage Transmitter

- The TE-AI/U series AC current/voltage transmitter is used to isolate and convert standard process current/voltage signals from AC transformers to control rooms, PLC/DCS, and display instruments.
- Internally, efficient magnetic and electrical isolation technology is used, with input and output isolated from each other and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and polar temperature drift.
- DIN35mm standard guide rail installation method.

SELECTION TABLE				
TE-AI/U	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-1A
	B			0-5A
	C			0-10A
	D			0-120V
	E			0-250V
	F			0-500V
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TE-AUXXX
 Eg: TE-AU1E1, 1 IN 1 OUT, input: 0-250V, output: DC 4-20mA.
 TE-AIXXX
 Eg: TE-AI1B1, 1 IN 1 OUT, input: 0-5A, output: DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range: AC 0-1A/2A/5A/10A
 Input voltage range: AC 0-30V/50V/120V/250V/500V
 Frequency range: 40Hz-60Hz

Output

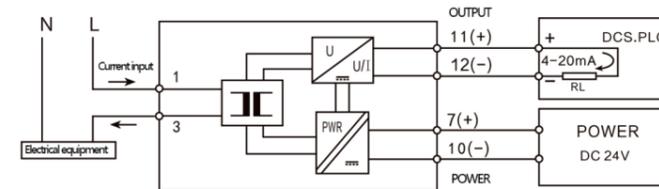
Output signal: 4-20mA; 0-20mA; 0-5v; 0-10v
 Output load resistance: $RL \leq 500\Omega$ (Output is current signal)
 $RL \geq 10K\Omega$ (Output is voltage signal)

Basic Parameter

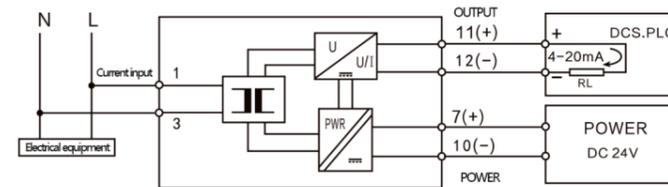
Power supply: DC24V, Voltage range: DC18-36V; or AC 85-265V
 Rated power: $\leq 1W$ (1 IN 1 OUT, DC24V, when 20mA output)
 Basic accuracy: $\leq 0.5\%F.S$
 Temperature drift: 0.02%F.S/°C (-20°C~+55°C)
 Response time: $\leq 400mS$ (0-90%) (TYP)
 Insulation strength: 2000VAC/1min (Between input, output and power)
 Insulation resistance: $\geq 100M\Omega$ (Between input, output and power)
 Working temperature range: -20~+55°C

Electromagnetic Compatibility: According to GB/T 18268.1(IEC61326-1)

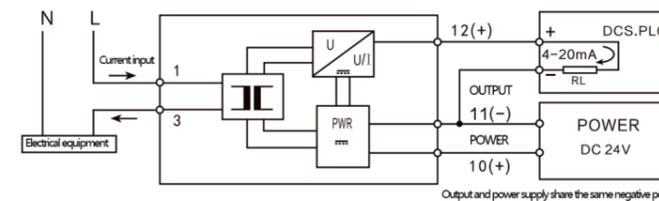
WIRING DIAGRAM



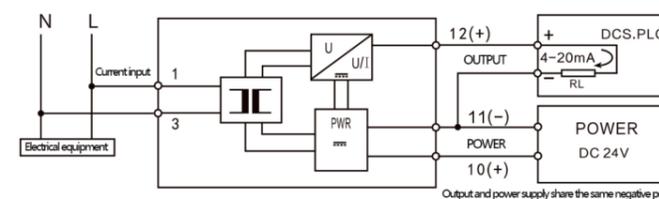
TE-AIXXX



TE-AUXXX



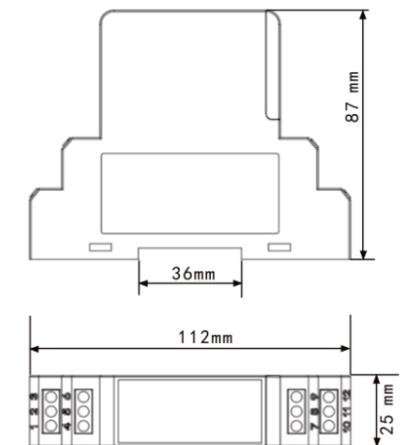
TE-AIXXX-N



TE-AUXXX-N



OVERALL DIMENSION



TE-HKI/U Series Current/Voltage Transmitter(Hall open loop)

● The TE-HKI/U series current/voltage transmitters use direct measurement Hall open-loop sensors to detect DC, AC, pulse, and other arbitrary waveform current and voltage signals. After isolation and conversion, they are converted into standard signals such as 4-20mA, 0-5V, and output to DCS or other secondary instruments. The product is applied to variable frequency speed control systems, welding machines, electrochemistry, power monitoring, electric locomotives, CNC machine tools, etc.

● Internally, efficient magnetic and electrical isolation technology is used, with input and output isolated from each other and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and fast response speed.

● DIN35mm standard guide rail installation method.

SELECTION TABLE				
TE-HKI/U	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-1A
	B			0-5A
	C			0-10A
	D			0-120V
	E			0-250V
	F			0-500V
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TE-HKUXXX
 Eg: TE-HKU1E1, 1 IN 1 OUT, input: 0-250V, output: DC 4-20mA.
 TE-HKIXXX
 Eg: TE-HKI1B1, 1 IN 1 OUT, input: 0-5A, output: DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range: AC/DC 0-1A/2A/5A/10A
 Input voltage range: AC/DC 0-30V/50V/120V/250V/500V
 Frequency range: DC-20KHz

Output

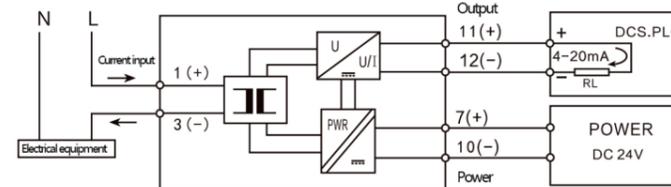
Output signal: 4-20mA; 0-20mA; 0-5v; 0-10v
 Output load resistance: $RL \leq 500\Omega$ (Output is current signal)
 $RL \geq 10K\Omega$ (Output is voltage signal)

Basic Parameter

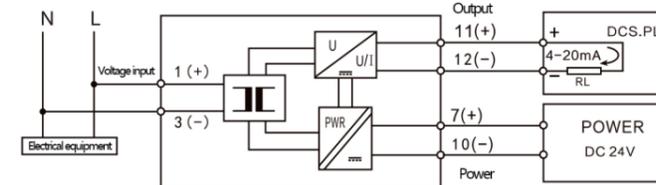
Power supply: DC24V, Voltage range: DC18-36V
 Rated power: $\leq 1W$ (1 IN 1 OUT, DC24V, when 20mA output)
 Linearity $\leq 0.5\%$
 Basic accuracy: $\leq 1\%F.S$
 Temperature drift: 0.05%F.S/ $^{\circ}C$ (-20 $^{\circ}C$ ~+55 $^{\circ}C$)

Response time: $\leq 200ms$ (0-90%) (TYP)
 Insulation strength: 2000VAC/1min (Between input, output and power)
 Insulation resistance: $\geq 100M\Omega$ (Between input, output and power)
 Working temperature range: -20~+55 $^{\circ}C$
 Electromagnetic Compatibility: According to GB/T 18268.1 (IEC61326-1)

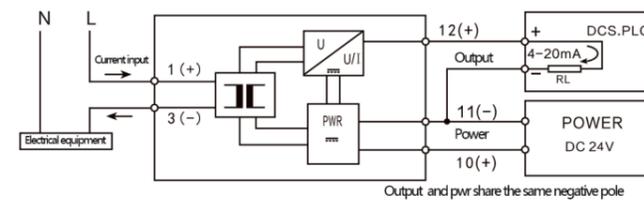
WIRING DIAGRAM



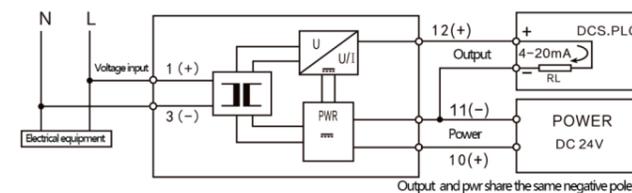
TE-HKIXXX



TE-HKUXXX



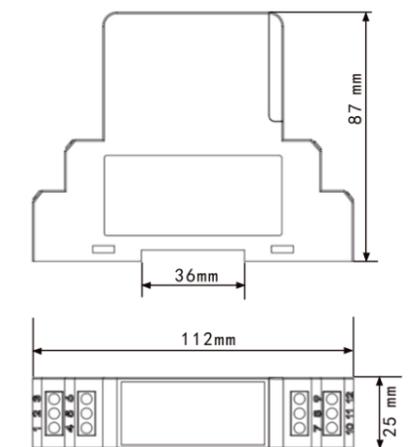
TE-HKIXXX-N



TE-HKUXXX-N



OVERALL DIMENSION



TK-SAI Series Perforated AC Current Transmitter

- The TK-SAI series perforated AC current transmitter is used to isolate and convert AC signals from AC transformers into standard process current/voltage signals to controllers, PLC/DCS, and display instruments.
- Adopting perforated input without insertion loss. Internally, efficient magnetolectric isolation technology is adopted, with mutual isolation between input and output, and anti-interference characteristics.
- DIN35mm standard guide rail installation method.

SELECTION TABLE				
TK-SAI	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-1A
	B			0-5A
	C			0-10A
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TK-SAIXXX
Eg: TK-SAI1B1, 1 IN 1 OUT, input: 0-5A, output : DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range: AC 0.5-10A

Frequency range: 40Hz-60Hz

Output

Output signal: 4-20mA; 0-20mA; 0-5v; 0-10v

Output load resistance: $RL \leq 500\Omega$ (Output is current signal)

$RL \geq 10K\Omega$ (Output is voltage signal)

Basic Parameter

Power supply: DC24V, Voltage range: DC18-36V or AC85-265V

Rated power: $\leq 1W$ (1 IN 1 OUT, DC24V, when 20mA output)

Basic accuracy: $\leq 0.5\%F.S$

Temperature drift: 0.02%F.S/ $^{\circ}C$ (-20 $^{\circ}C$ ~+55 $^{\circ}C$)

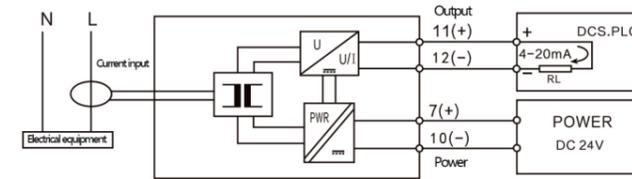
Insulation strength: 2000VAC/1min (Between input, output and power)

Insulation resistance: $\geq 100M\Omega$ (Between input, output and power)

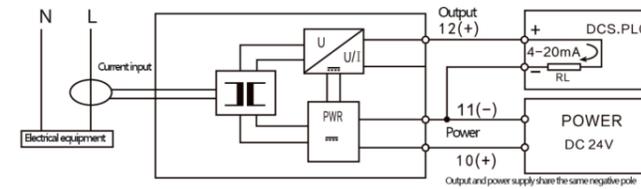
Working temperature range: -20~+55 $^{\circ}C$

Electromagnetic Compatibility: According to GB/T 18268.1(IEC61326-1)

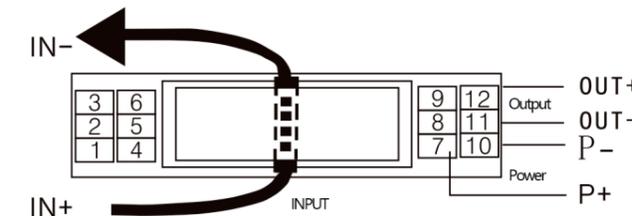
WIRING DIAGRAM



TK-SAIXXX



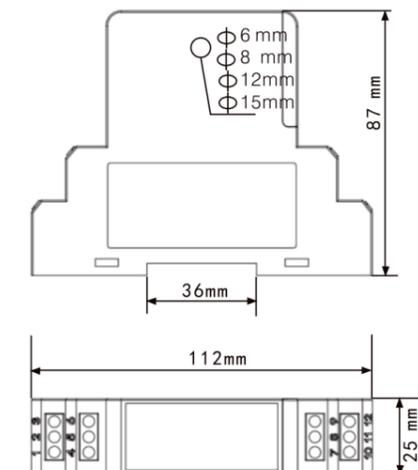
TK-SAIXXX-N



TK-SAIXXX



OVERALL DIMENSION



TE-HBI/U Series Current/Voltage Transmitter(Hall closed-loop)

● The TE-HBI/U series current/voltage transmitters use magnetic balanced Hall closed-loop sensors to detect DC, AC, pulse, and other arbitrary waveform current and voltage signals. After isolation and conversion, they are converted into standard signals such as 4-20mA, 0-5V, and output to DCS or other secondary instruments. The product is applied to variable frequency speed control systems, welding machines, electrochemistry, power monitoring, electric locomotives, CNC machine tools, etc.

● Internally, efficient magnetic and electrical isolation technology is used, with input and output isolated from each other and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and fast response speed.

● DIN35mm standard guide rail installation method.

SELECTION TABLE				
TE-HBI/U	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-1A
	B			0-5A
	C			0-10A
	D			0-120V
	E			0-250V
	F			0-500V
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TE-HBUXXX
 Eg: TE-HBU1E1, 1 IN 1 OUT, input: 0-250V, output: DC 4-20mA.
 TE-HBIXXX
 Eg: TE-HBI1B1, 1 IN 1 OUT, input: 0-5A, output: DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range: AC/DC 0-1A/2A/5A/10A
 Input voltage range: AC/DC 0-30V/50V/120V/250V/500V
 Frequency range: DC-100KHz

Output

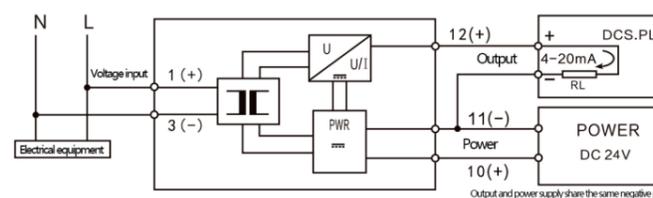
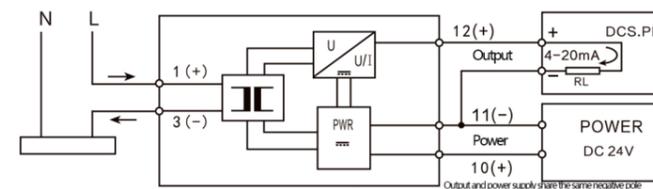
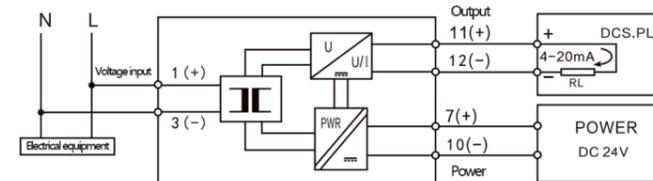
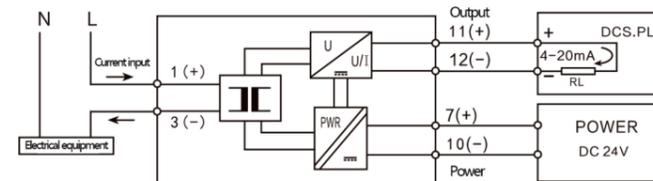
Output signal: 4-20mA; 0-20mA; 0-5v; 0-10v
 Output load resistance: $RL \leq 500\Omega$ (Output is current signal)
 $RL \geq 10K\Omega$ (Output is voltage signal)

Basic Parameter

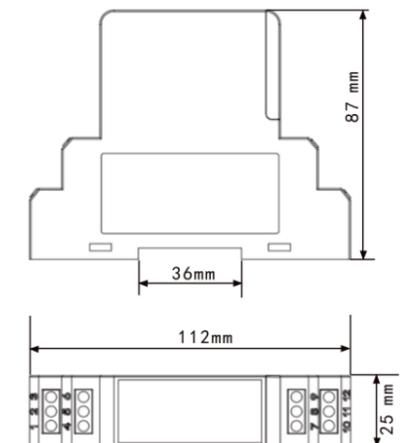
Power supply: DC24V, Voltage range: DC18-36V
 Rated power: $\leq 1W$ (1 IN 1 OUT, DC24V, when 20mA output)
 Linearity: 0.2%
 Basic accuracy: $\leq 0.5\%F.S$
 Temperature drift: 0.05%F.S/°C (-20°C~+55°C)

Response time: $\leq 0.01ms$ (0-90%) (TYP)
 Insulation strength: 2000VAC/1min (Between input, output and power)
 Insulation resistance: $\geq 100M\Omega$ (Between input, output and power)
 Working temperature range: -20~+55°C
 Electromagnetic Compatibility: According to GB/T 18268.1 (IEC61326-1)

WIRING DIAGRAM



OVERALL DIMENSION



TK-SHKI Series Perforated AC Current Transmitter(Hall open loop)

- The TK-SHKI series perforated AC current transmitter uses a direct measurement Hall open-loop to detect DC, AC, pulse, and other arbitrary waveform current signals. After isolation and conversion, it is converted into standard signals such as 4-20mA, 0-5V, and output to DCS or other secondary instruments. The product is applied to variable frequency speed control systems, welding machines, electrochemistry, power monitoring, electric locomotives, CNC machine tools, etc.

- Adopting perforated input without insertion loss. Internally, efficient magnetoelectric isolation technology is adopted, with mutual isolation between input and output, and anti-interference characteristics.

- DIN35mm standard guide rail installation method.

SELECTION TABLE				
TK-SAI	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal		A		0-1A
		B		0-5A
		C		0-10A
		Z		Customized
Output Signal			1	4-20mA
			2	0-20mA
			5	0-5V
			7	0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TK-SHKIXXX
Eg: TK-SHKI1B1,1 IN 1 OUT,input:0-5A,output :DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range:AC/DC 0-1A/2A/5A/10A

Frequency range: DC-20KHz

Output

Output signal:4-20mA;0-20mA;0-5v;0-10v

Output load resistance:RL≤500Ω (Output is current signal)

RL≥10KΩ (Output is voltage signal)

Basic Parameter

Power supply: DC24V,Voltage range:DC18-36V or AC85-265V

Rated power: ≤1W (1 IN 1 OUT,DC24V,when 20mA output)

Linearity:0.5%

Basic accuracy:≤1%F.S

Temperature drift:0.05%F.S/°C (-20°C~+55°C)

Response time:≤200mS(0-90%)(TYP)

Insulation strength:2000VAC/1min(Between input,output and power)

Insulation resistance:≥100MΩ(Between input,output and power)

Working temperature range:-20~+55°C

Electromagnetic Compatibility: According to GB/T 18268.1(IEC61326-1)

WIRING DIAGRAM

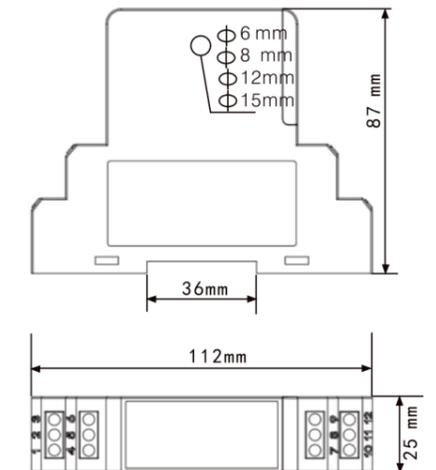


TK-SAIXXX

OVERALL DIMENSION

TK-SAIXXX-N

TK-SAIXXX



TK-SHKI Series Perforated AC Current Transmitter(Hall open loop)

- The TK-SHKI series perforated current transmitter uses a direct measurement Hall open-loop sensor to detect DC, AC, pulse, and other arbitrary waveform current signals. After isolation and conversion, it is converted into standard signals such as 4-20mA, 0-5V, and output to DCS or other secondary instruments. The product is applied to variable frequency speed control systems, welding machines, electrochemistry, power monitoring, electric locomotives, CNC machine tools, etc.
- Adopting perforated input without insertion loss. Internally, efficient magnetic and electrical isolation technology is used, with input and output isolated from each other and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and fast response speed.
- DIN35mm standard guide rail installation method.

SELECTION TABLE				
TK-SHKI	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-1A
	B			0-5A
	C			0-10A
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TK-SHKIXXX
Eg: TK-SHKI1B1,1 IN 1 OUT,input:0-5A,output :DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range:AC/DC 0-1A/2A/5A/10A

Frequency range: DC-20KHz

Output

Output signal:4-20mA;0-20mA;0-5v;0-10v

Output load resistance:RL≤500Ω (Output is current signal)

RL≥10KΩ (Output is voltage signal)

Basic Parameter

Power supply: DC24V,Voltage range:DC18-36V

Rated power: ≤1W (1 IN 1 OUT,DC24V,when 20mA output)

Linearity:0.5%

Basic accuracy: ≤1%F.S

Temperature drift:0.05%F.S/°C (-20°C~+55°C)

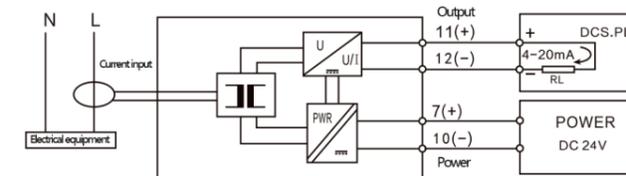
Insulation strength:2000VAC/1min(Between input,output and power)

Insulation resistance:≥100MΩ(Between input,output and power)

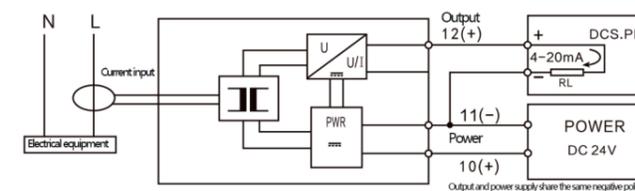
Working temperature range:-20~+55°C

Electromagnetic Compatibility: According to GB/T 18268.1(IEC61326-1)

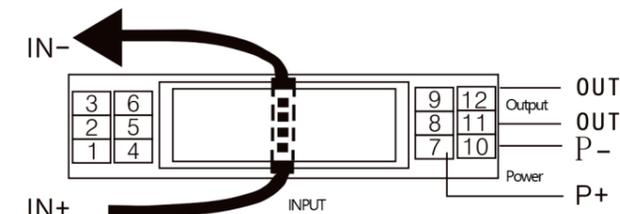
WIRING DIAGRAM



TK-SHKIXXX



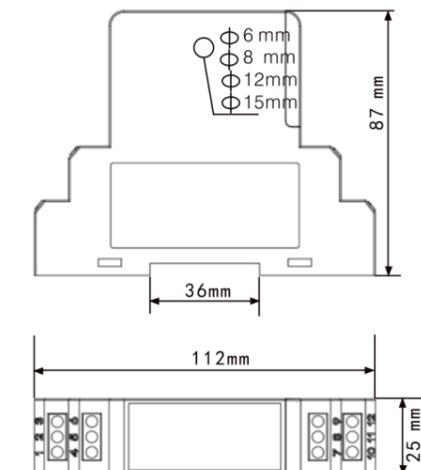
TK-SHKIXXX-N



TK-SHKIXXX



OVERALL DIMENSION



TK-SHBI Series Perforated AC Current Transmitter(Hall closed-loop)

- The TK-SHBI series perforated current transmitter uses a magnetic balanced Hall closed-loop sensor to detect DC, AC, pulse, and other arbitrary waveform current signals. After isolation and conversion, it is converted into standard signals such as 4-20mA, 0-5V, and output to DCS or other secondary instruments. The product is applied to variable frequency speed control systems, welding machines, electrochemistry, power monitoring, electric locomotives, CNC machine tools, etc.
- Adopting perforated input without insertion loss. Internally, efficient magnetic and electrical isolation technology is used, with input and output isolated from each other and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and fast response speed.
- DIN35mm standard guide rail installation method.

SELECTION TABLE				
TK-SHBI	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-1A
	B			0-5A
	C			0-10A
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TK-SHBIXXX
Eg: TK-SHB1B1,1 IN 1 OUT,input:0-5A,output :DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range:AC/DC 0-1A/2A/5A/10A
Frequency range: DC-100KHz

Output

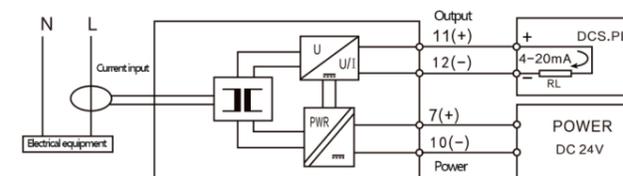
Output signal:4-20mA;0-20mA;0-5v;0-10v
Output load resistance:RL≤500Ω (Output is current signal)
RL≥10KΩ (Output is voltage signal)

Basic Parameter

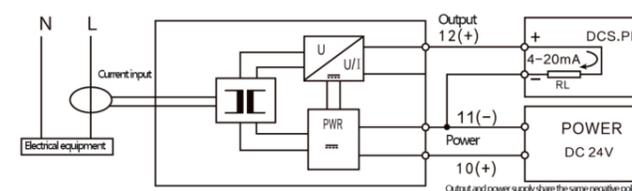
Power supply: DC24V,Voltage range:DC18-36V
Rated power: ≤1W (1 IN 1 OUT,DC24V,when 20mA output)
Linearity:0.2%
Basic accuracy: ≤0.5%F.S
Temperature drift:0.05%F.S/°C (-20°C~+55°C)
Insulation strength:2000VAC/1min(Between input,output and power)

Insulation resistance:≥100MΩ(Between input,output and power)
Working temperature range:-20~+55°C
Electromagnetic Compatibility: According to GB/T 18268.1(IEC61326-1)

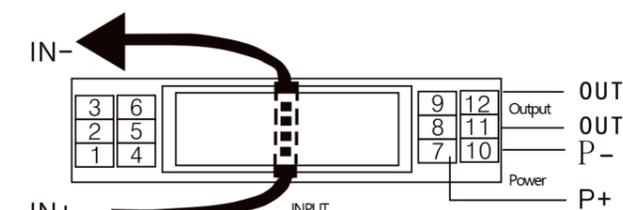
WIRING DIAGRAM



TK-SHBIXXX



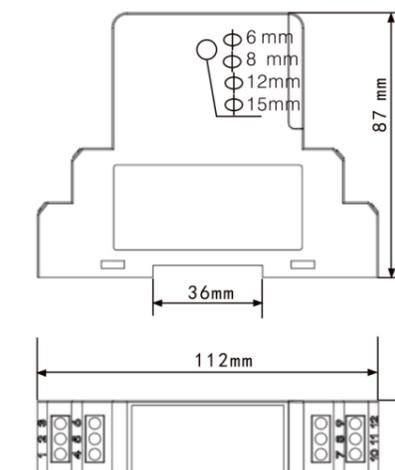
TK-SHBIXXX-N



TK-SHBIXXX



OVERALL DIMENSION



TK-AIM Series Perforated AC Current Transmitter

- The TK-AIM series perforated AC current transmitter is used to convert AC signal isolators from AC transformers into standard process current/voltage signals to control rooms, PLCs, DCS, and display instruments.
- Adopting perforated input without insertion loss. Internally, efficient magnetolectric isolation technology is used, with input and output isolated from each other, and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and polar temperature drift.
- DIN35mm standard guide rail installation method.

SELECTION TABLE				
TK-AIM	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-50A
	B			0-100A
	C			0-200A
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TK-AIMXXX
Eg: TK-AIM1B1, 1 IN 1 OUT, input: 0-100A, output: DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range: AC 1-500A

Frequency range: 40Hz-60Hz

Output

Output signal: 4-20mA; 0-20mA; 0-5v; 0-10v

Output load resistance: $RL \leq 500\Omega$ (Output is current signal)

$RL \geq 10K\Omega$ (Output is voltage signal)

Basic Parameter

Power supply: DC24V, Voltage range: DC18-36V or AC85-265V

Rated power: $\leq 1W$ (1 IN 1 OUT, DC24V, when 20mA output)

Basic accuracy: $\leq 0.5\%F.S$

Temperature drift: 0.02%F.S/ $^{\circ}C$ (-20 $^{\circ}C$ ~+55 $^{\circ}C$)

Response time: $\leq 400ms$ (0-90%) (TYP)

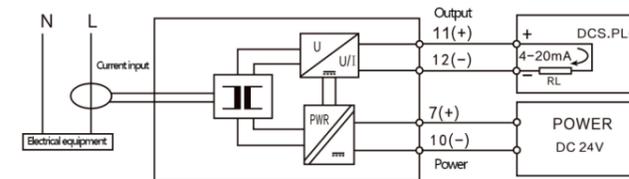
Insulation strength: 2000VAC/1min (Between input, output and power)

Insulation resistance: $\geq 100M\Omega$ (Between input, output and power)

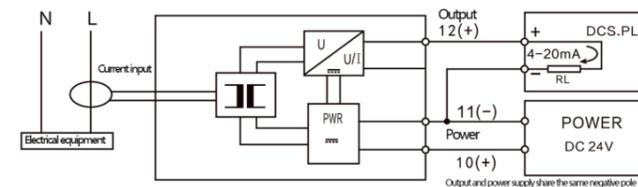
Working temperature range: -20~+55 $^{\circ}C$

Electromagnetic Compatibility: According to GB/T 18268.1 (IEC61326-1)

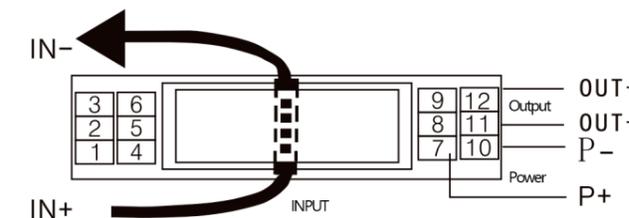
WIRING DIAGRAM



TK-MAIXXX



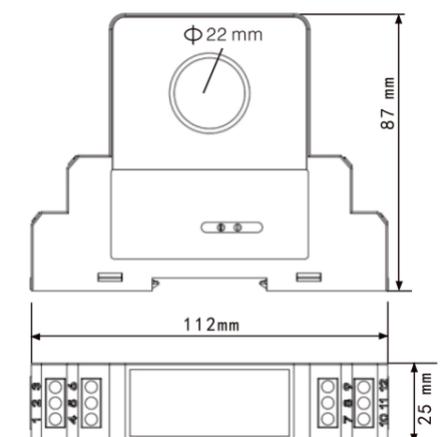
TK-MAIXXX-N



TK-MAIXXX



OVERALL DIMENSION



TK-AIM Series Perforated AC Current Transmitter

- The TK-AIM series perforated AC current transmitter is used to convert AC signal isolators from AC transformers into standard process current/voltage signals to control rooms, PLCs, DCS, and display instruments.
- Adopting perforated input without insertion loss. Internally, efficient magnetolectric isolation technology is used, with input and output isolated from each other, and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and polar temperature drift.
- DIN35mm standard guide rail installation method.

SELECTION TABLE				
TK-AIM	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-50A
	B			0-100A
	C			0-200A
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TK-AIMXXX
Eg: TK-AIM1B1, 1 IN 1 OUT, input: 0-100A, output: DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range: AC 1-500A

Frequency range: 40Hz-60Hz

Output

Output signal: 4-20mA; 0-20mA; 0-5v; 0-10v

Output load resistance: $RL \leq 500\Omega$ (Output is current signal)

$RL \geq 10K\Omega$ (Output is voltage signal)

Basic Parameter

Power supply: DC24V, Voltage range: DC18-36V or AC85-265V

Rated power: $\leq 1W$ (1 IN 1 OUT, DC24V, when 20mA output)

Basic accuracy: $\leq 0.5\%F.S$

Temperature drift: 0.02%F.S/ $^{\circ}C$ (-20 $^{\circ}C$ ~+55 $^{\circ}C$)

Response time: $\leq 400ms$ (0-90%) (TYP)

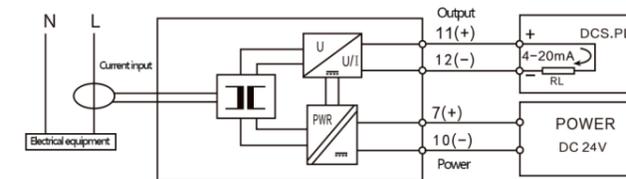
Insulation strength: 2000VAC/1min (Between input, output and power)

Insulation resistance: $\geq 100M\Omega$ (Between input, output and power)

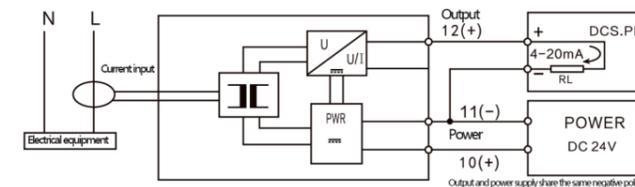
Working temperature range: -20~+55 $^{\circ}C$

Electromagnetic Compatibility: According to GB/T 18268.1 (IEC61326-1)

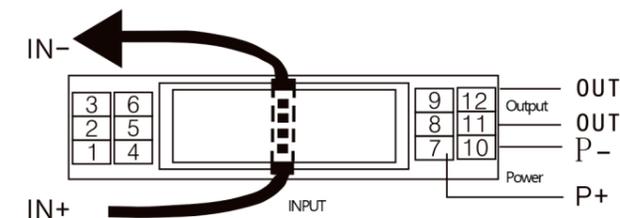
WIRING DIAGRAM



TK-MAIXXX



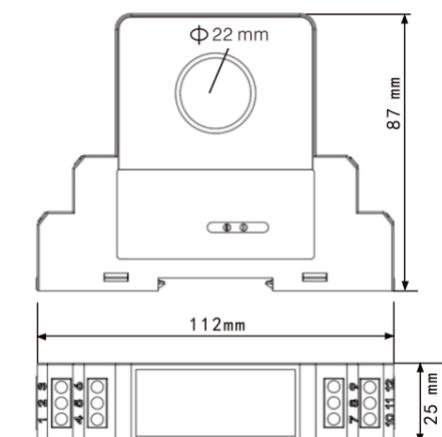
TK-MAIXXX-N



TK-MAIXXX



OVERALL DIMENSION



TK-MHBI Series Perforated AC Current Transmitter(Hall closed-loop)

● The TK-MHBI series perforated current transmitter uses a magnetic balanced Hall closed-loop sensor to detect DC, AC, pulse, and other arbitrary waveform current signals. After isolation and conversion, it is converted into standard signals such as 4-20mA, 0-5V, and output to DCS or other secondary instruments. The product is applied to variable frequency speed control systems, welding machines, electrochemistry, power monitoring, electric locomotives, CNC machine tools, etc.

● Adopting perforated input without insertion loss. Internally, efficient magnetic and electrical isolation technology is used, with input and output isolated from each other and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and fast response speed.

● DIN35mm standard guide rail installation method.

SELECTION TABLE				
TK-MHBI	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-50A
	B			0-100A
	C			0-200A
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TK-MHBIXXX
Eg: TK-MHB1B1, 1 IN 1 OUT, input:0-100A, output:DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range:AC/DC 1-500A
Frequency range: DC-100KHz

Output

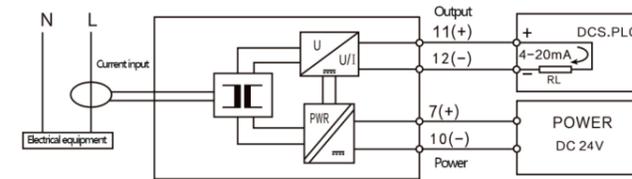
Output signal:4-20mA;0-20mA;0-5v;0-10v
Output load resistance:RL≤500Ω (Output is current signal)
RL≥10KΩ (Output is voltage signal)

Basic Parameter

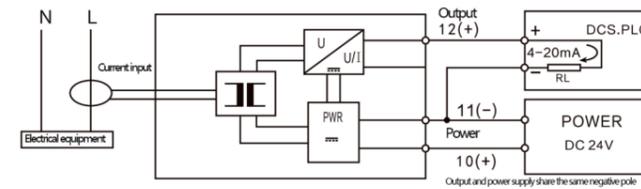
Power supply: DC24V,Voltage range:DC18-36V
Rated power: ≤1W (1 IN 1 OUT,DC24V,when 20mA output)
Linearity:0.2%
Basic accuracy: ≤0.5%F.S
Temperature drift:0.05%F.S/°C (-20°C~+55°C)
Response time: ≤0.01mS(0-90%)(TYP)

Insulation strength:2000VAC/1min(Between input,output and power)
Insulation resistance:≥100MΩ(Between input,output and power)
Working temperature range:-20~+55°C
Electromagnetic Compatibility: According to GB/T 18268.1(IEC61326-1)

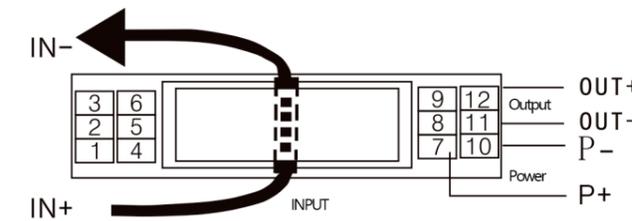
WIRING DIAGRAM



TK-MHBIXXX



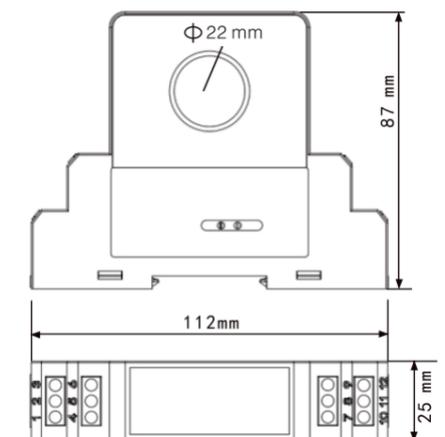
TK-MHBIXXX-N



TK-MHBIXXX



OVERALL DIMENSION



TEK-AI/U Series AC Current/Voltage Transmitter

● The TEK-AI/U series perforated current transmitter uses a magnetic balanced Hall closed-loop sensor to detect DC, AC, pulse, and other arbitrary waveform current signals. After isolation and conversion, it is converted into standard signals such as 4-20mA, 0-5V, and output to DCS or other secondary instruments. The product is applied to variable frequency speed control systems, welding machines, electrochemistry, power monitoring, electric locomotives, CNC machine tools, etc.

● Adopting perforated input without insertion loss. Internally, efficient magnetic and electrical isolation technology is used, with input and output isolated from each other and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and fast response speed.

● Choose between two installation methods: DIN rail and flat screw fixation.

SELECTION TABLE				
TEK-AI/U	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-1A
	B			0-5A
	C			0-10A
	D			0-120A
	E			0-250A
	F			0-500A
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TEK-AUXXX
 Eg: TEK-AU1E1, 1 IN 1 OUT, input: 0-250A, output: DC 4-20mA.
 TEK-AIXXX
 Eg: TEK-AI1B1, 1 IN 1 OUT, input: 0-5A, output: DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range: AC/DC 1-500A
 Frequency range: DC-100KHz

Output

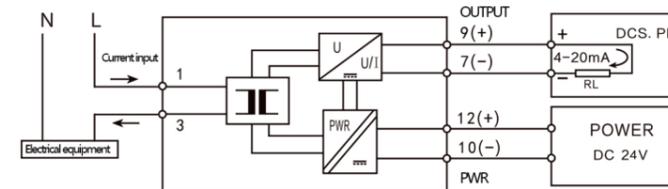
Output signal: 4-20mA; 0-20mA; 0-5v; 0-10v
 Output load resistance: $RL \leq 500\Omega$ (Output is current signal)
 $RL \geq 10K\Omega$ (Output is voltage signal)

Basic Parameter

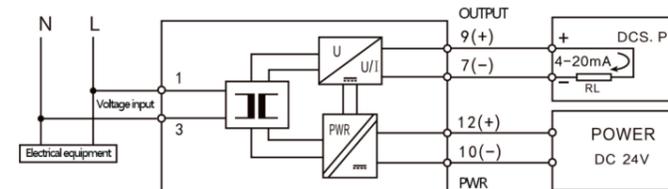
Power supply: DC24V, Voltage range: DC18-36V
 Rated power: $\leq 1W$ (1 IN 1 OUT, DC24V, when 20mA output)
 Linearity: 0.2%
 Basic accuracy: $\leq 0.5\%F.S$

Temperature drift: 0.05%F.S/°C (-20°C~+55°C)
 Response time: $\leq 0.01mS$ (0-90%) (TYP)
 Insulation strength: 2000VAC/1min (Between input, output and power)
 Insulation resistance: $\geq 100M\Omega$ (Between input, output and power)
 Working temperature range: -20~+55°C
 Electromagnetic Compatibility: According to GB/T 18268.1 (IEC61326-1)

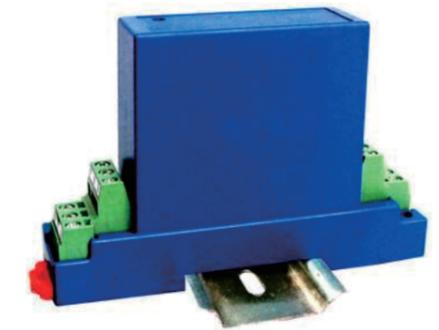
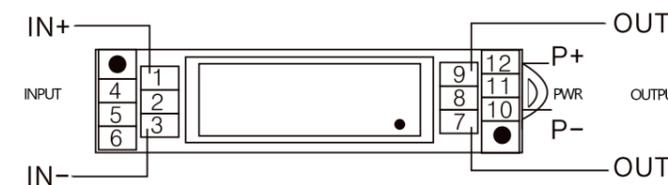
WIRING DIAGRAM



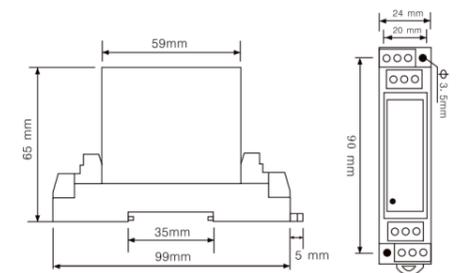
TEK-AIXXX



TEK-AUXXX



OVERALL DIMENSION



TEK-TAI Series Perforated AC Current/Voltage Transmitter

● The TEK-TAI series perforated AC transmitter is used to isolate and convert AC signals from AC transformers into standard process current/voltage signals to control rooms, PLC/DCS, and display instruments.

● Adopting perforated input without insertion loss. Internally, efficient magnetic and electrical isolation technology is used, with input and output isolated from each other and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and polar temperature drift.

● Choose between two installation methods: DIN rail and flat screw fixation.

SELECTION TABLE				
TEK-TAI	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal	A			0-5A
	B			0-10A
	C			0-100A
	Z			Customized
Output Signal		1		4-20mA
		2		0-20mA
		5		0-5V
		7		0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TEK-TAXXX
Eg: TEK-TAI1B1,1 IN 1 OUT,input:0-10A,output :DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range:AC 0.5-150A

Frequency range: 40Hz-60Hz

Output

Output signal:4-20mA;0-20mA;0-5v;0-10v

Output load resistance:RL≤500Ω (Output is current signal)

RL≥10KΩ (Output is voltage signal)

Basic Parameter

Power supply: DC24V,±10% or AC85-265V

Rated power: ≤1W (1 IN 1 OUT,DC24V,when 20mA output)

Basic accuracy: ≤0.5%F.S

Temperature drift:0.02%F.S/°C (-20°C~+55°C)

Response time: ≤400mS(0-90%)(TYP)

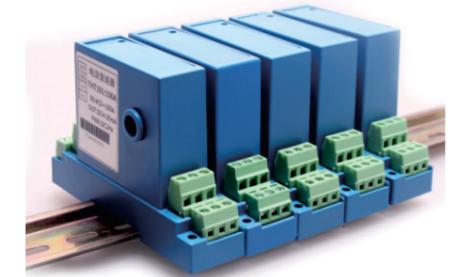
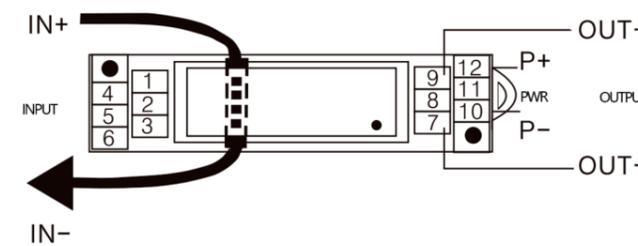
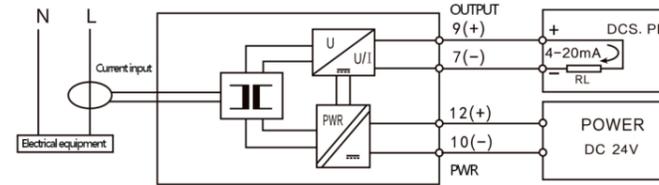
Insulation strength:2000VAC/1min(Between input,output and power)

Insulation resistance: ≥100MΩ(Between input,output and power)

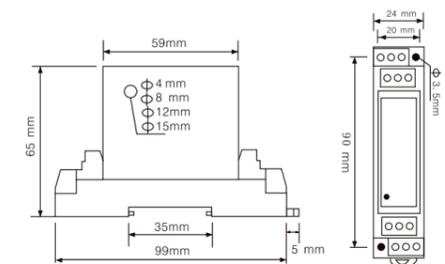
Working temperature range:-20~+55°C

Electromagnetic Compatibility: According to GB/T 18268.1(IEC61326-1)

WIRING DIAGRAM



OVERALL DIMENSION



TEK-74XX Series Single-phase AC Power Acquisition Module

- TEK-74XX series products are a series of industrial grade standard single-phase AC power acquisition products, including single-phase AC current acquisition, single-phase AC voltage acquisition, and single-phase power acquisition products.
- Adopting RS-485 communication interface, the application layer adopts standard MODBUS-RTU protocol, which complies with industrial standards and is suitable for various industrial occasions and automation systems. Convenient communication with the upper computer, enabling fast networking and construction of detection systems.

Product Selection

- TEK-7411: Single-phase AC power acquisition module
0-20A input, 0-500V input.
- TEK-7421: Single phase
0-10A Current acquisition module
- TEK-7422: Single phase
0-50A Current acquisition module
- TEK-7424: Single phase
0-100A Current acquisition module
- TEK-7431: Single phase
0-100A Voltage acquisition module
- TEK-7432: Single phase
0-300A Voltage acquisition module
- TEK-7433: Single phase
0-500A Voltage acquisition module

MAIN TECHNICAL PARAMETERS

Input

- Input range: Reference model description
- Frequency range: 45Hz-65Hz
- Samples frequency: Update rate ≤ 3 Hz
- Current accuracy: 0.5%
- Voltage accuracy: 0.5%
- Voltage frequency: ± 0.1 Hz (When the input voltage is below 10V, accurate measurement will not be possible)
- Apparent power accuracy: 0.5%
- Active power accuracy: \pm Active power accuracy $\times 0.5\%$
- Reactive power accuracy: \pm Active power accuracy $\times 0.5\%$

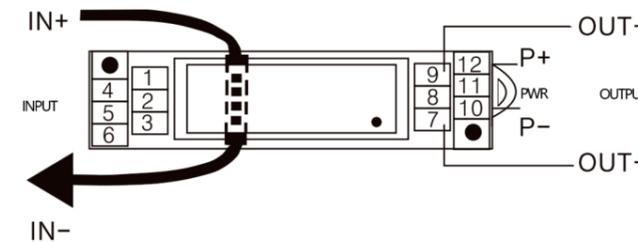
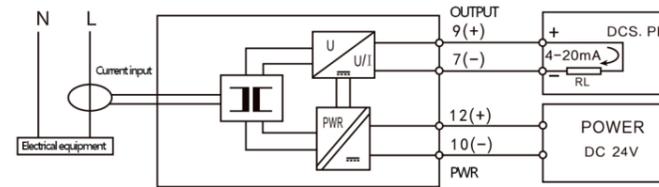
Output

- Signal type: RS-485 digital signal
- BAUD: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200bps
- Output load resistance: $R_L \leq 500\Omega$ (Output is current signal)
- Verification method: no verification, odd verification, or even verification
- Data bits: 8bits
- Communication protocol: Standard MODBUS-RTU protocol
- Communication Distance: 1200m(TYP)

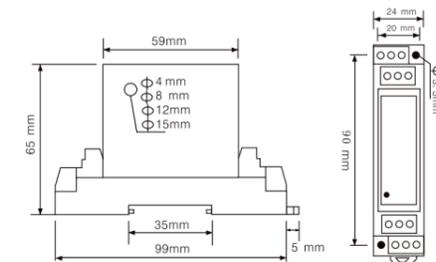
Basic Parameter

- Power supply: DC24V, Voltage range: DC9-30V
- Power consumption: $\leq 2W@DC24V$
- Insulation strength: 1500VAC/1min (Between input and output)
- Insulation resistance: $\geq 100M\Omega$ (Between input and output)
- Electromagnetic Compatibility: According to GB/T 18268.1 (IEC61326-1)
- Suitable for on-site devices: configuration software, PLC, touch screen, computer, and other devices that support the MODBUS-RTU protocol.

WIRING DIAGRAM



OVERALL DIMENSION



TEL-TAI Series Perforated AC Current Transmitter

● The TEL-TAI series perforated AC current transmitter is used to isolate and convert AC signals from AC transformers into standard process current/voltage signals to control rooms, PLCs, DCS, and display instruments.

● Internally, efficient magnetic and electrical isolation technology is used, with input and output isolated from each other and strong anti-interference ability. It has the characteristics of high accuracy, high linearity, and polar temperature drift.

● Choose between two installation methods: DIN rail and flat screw fixation.

SELECTION TABLE				
TEL-TAI	X	X	X	Instructions
Channel	1			1 IN 1 OUT
Input Signal		A		0-5A
		B		0-10A
		C		0-100A
		Z		Customized
Output Signal			1	4-20mA
			2	0-20mA
			5	0-5V
			7	0-10V

Note: Customers need to determine the input signal form and output signal form when placing an order. If there are special needs, they can customize it

Product Selection

TEL-TAIXXX
Eg: TEL-TAI1B1, 1 IN 1 OUT, input: 0-100A, output: DC 4-20mA.

MAIN TECHNICAL PARAMETERS

Input

Input current range: AC 1-500A
Frequency range: 40Hz-65Hz

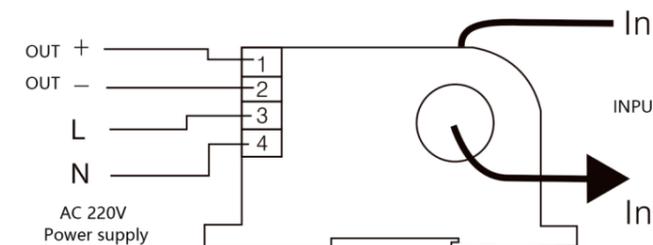
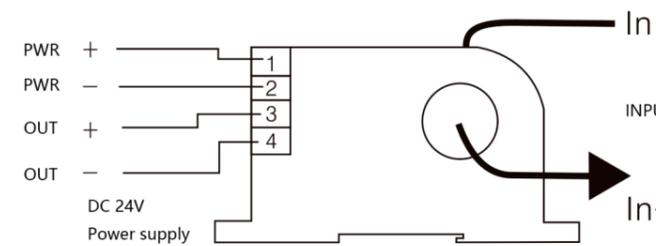
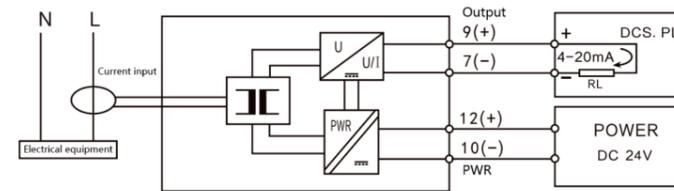
Output

Output signal: 4-20mA; 0-20mA; 0-5v; 0-10v
Output load resistance: $RL \leq 500\Omega$ (Output is current signal)
 $RL \geq 10K\Omega$ (Output is voltage signal)

Basic Parameter

Power supply: DC24V, $\pm 10\%$ or AC85-265V
Rated power: $\leq 1W$ (1 IN 1 OUT, DC24V, when 20mA output)
Basic accuracy: $\leq 0.5\%F.S$
Temperature drift: $0.02\%F.S/^{\circ}C$ (-20 $^{\circ}C$ ~+55 $^{\circ}C$)
Response time: $\leq 400mS$ (0-90%)(TYP)
Insulation strength: 2000VAC/1min (Between input, output and power)
Insulation resistance: $\geq 100M\Omega$ (Between input, output and power)
Working temperature range: -20~+55 $^{\circ}C$
Electromagnetic Compatibility: According to GB/T 18268.1 (IEC61326-1)

WIRING DIAGRAM



OVERALL DIMENSION

