

Power Transducers

전력 변환기 (Watt Transducer)

■ 주요 사양 (Specification)

- Accuracy Class : 0.2% of span
- Ripple : 0.5% P-P of span
- Response Time : 0.4sec (0 ~ 99% for step change)

Output Mode	Circuit	Type	Rated Input(AC)		Output(DC)		Freq.	Burden	Auxiliary Power (AC)	Weight (g)	Case Model				
			Voltage	Current	Range	Load Com.									
DC Current	1P 2W	TA - 1W1	110V or 220V	5A or 1A	0 ~ 1mA	< 10kΩ	50 / 60Hz	Current : 1.0VA / phase	110 / 220V	≐ 700	TL				
		TA - 1W2			4 ~ 20mA	< 500Ω									
		TA - 1W3			-1 ~ 0 ~ +1mA	< 10kΩ									
	1P 3W	TA - 2W1			0 ~ 1mA	< 10kΩ				≐ 850					
		TA - 2W2			4 ~ 20mA	< 500Ω									
		TA - 2W3			-1 ~ 0 ~ +1mA	< 10kΩ									
	3P 3W	TA - 3W1	0 ~ 1mA		< 10kΩ										
		TA - 3W2	4 ~ 20mA		< 500Ω										
		TA - 3W3	-1 ~ 0 ~ +1mA		< 10kΩ										
	3P 4W	TA - 4W1	0 ~ 1mA		< 10kΩ	≐ 1030									
		TA - 4W2	4 ~ 20mA		< 500Ω										
		TA - 4W3	-1 ~ 0 ~ +1mA		< 10kΩ										
DC Voltage	1P 2W	TV - 1W1	110V or 220V		5A or 1A	0 ~ 1V		> 200Ω		50 / 60Hz		Voltage : 0.5VA / phase	110 / 220V	≐ 700	TL
		TV - 1W2				1 ~ 5V		> 1kΩ							
		TV - 1W3				-1 ~ 0 ~ +1V		> 200Ω							
	1P 3W	TV - 2W1				0 ~ 1V		> 200Ω						≐ 850	
		TV - 2W2				1 ~ 5V		> 1kΩ							
		TV - 2W3				-1 ~ 0 ~ +1V		> 200Ω							
	3P 3W	TV - 3W1	0 ~ 1V			> 200Ω									
		TV - 3W2	1 ~ 5V			> 1kΩ									
		TV - 3W3	-1 ~ 0 ~ +1V			> 200Ω									
	3P 4W	TV - 4W1	0 ~ 1V			> 200Ω		≐ 1030							
		TV - 4W2	1 ~ 5V			> 1kΩ									
		TV - 4W3	-1 ~ 0 ~ +1V			> 200Ω									

※ 주문 사양에 따라 입력, 출력, 출력전원 및 주파수를 변경하여 제작이 가능합니다.
Order made is available except for standard products. (Input, Output, Auxiliary power, Frequency)

■ Operating Area of Input

	Voltage		Current		Frequency		Auxiliary Power (AC)	
Rating	110V	220V	1A	5A	50Hz	60Hz	110V	220V
Range	0 ~ 120V	0 ~ 240V	0 ~ 1.5A	0 ~ 7.5A	47 ~ 53Hz	57 ~ 63Hz	90 ~ 130V	180 ~ 260V

※ 전압, 전류 및 제어전원의 동작 범위는 연속 정격이 아니므로 단시간 동안의 입력값 대비 출력값의 동작 범위입니다.
Operation range of voltage, current and auxiliary power is not continuous rating. Therefore it is operation range of output value compared to input value during a short time.

■ Calibration Watt

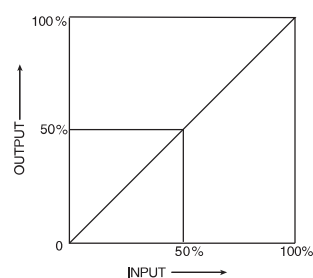
(Unit : kW)

		1P 2W		1P 3W		3P 3W						3P 4W				
		110V	110V	110V	110V	110V	110V	110V	110V	110V	110V	208/ $\sqrt{3}$ V	380/ $\sqrt{3}$ V	380/ $\sqrt{3}$ V	11400/ $\sqrt{3}$ V	22900/ $\sqrt{3}$ V
C,T 2'ry A	5A	0.6	1.0	2.0	1.158	1.0	1.0	1.0	1.0	0.961	1.0	2.0	2.0	4.0	1.666	1.666
	1A	0.12	0.2	0.4	0.232	0.2	0.2	0.2	0.2	0.192	0.2	0.4	0.4	0.8	0.333	0.333

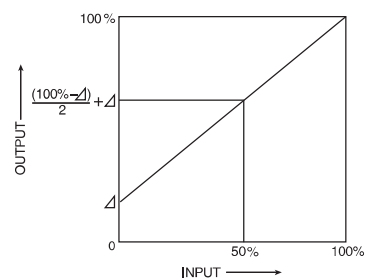
※ 3상 3선식의 표준 교정 전력은 1.0kW이고, 3상 4선식은 1.666kW 입니다.
The standard calibration Watt of 3P 3W is 1.0kW and that of 3P 4W is 1.666kW.
※ 변환기의 교정 전력은 전력계의 교정 전력과 같습니다.
The calibration Watts of transducer is same the calibration of Wattmeter.

Input – Output Curve

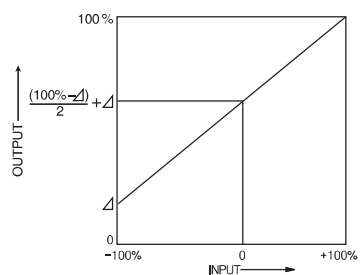
- Output Range : 0 ~ 1mA
0 ~ 1V



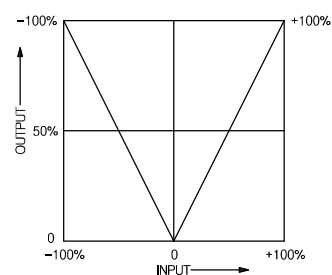
- Output Range : 4 ~ 20mA
1 ~ 5V



- Output Range : 4 ~ 12 ~ 20mA
1 ~ 3 ~ 5V

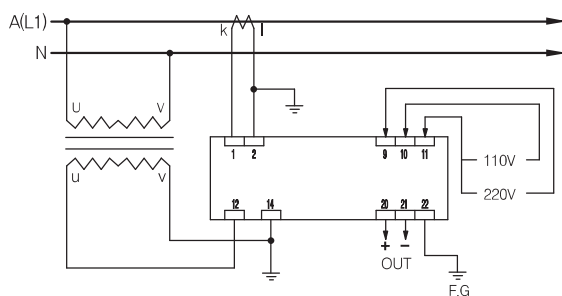


- Output Range : -1 ~ 0 ~ +1mA
-1 ~ 0 ~ +1V

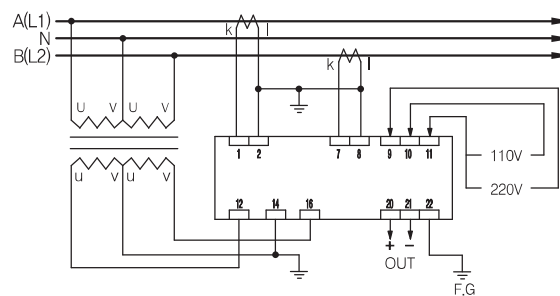


외부 결선 (External Connection)

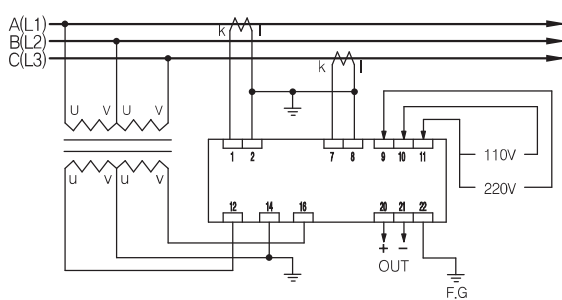
- 1P 2W



- 1P 3W



- 3P 3W



- 3P 4W

