

Generic power transducer

Build in super small PT, small power transducer with combination of choice of applied CT

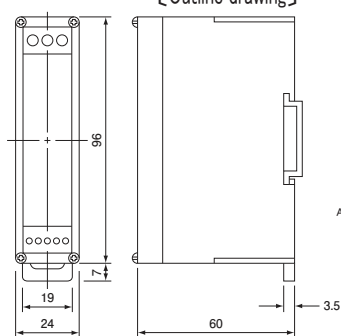


Model PTD-S series

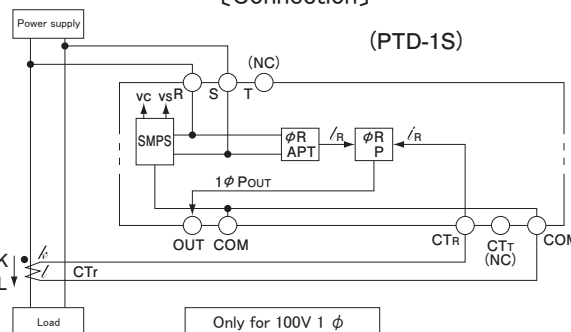
[Features]

- Super compact design of business card case size build in super small size PT (Corresponding to DIN rail)
- 0 ~ 5V output of true power RMS measurement (power supply isolation type)
- Possible to mount established wire with combination of split type CT
- Cover super wide range of power until 500kW max with combination of CT line up for PTD-S series
- Separately selling applied CT and cable
- In case of reversal phase between voltage and current, output to be negative (-) (Possible to measure reverse power flow)

[Outline drawing]



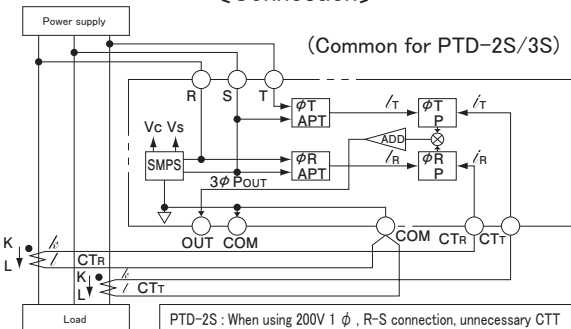
[Connection]



Applied CT, rating power matrix

Applied CT model	PTD-1S	PTD-2S	PTD-3S
CTL-10CLS-4A/0.4V	5V / 300W	5V / 600W	5V / 1kW
CTL-10CLS-8A/0.4V	5V / 600W	5V / 1.2kW	5V / 2kW
CTL-16CLS-20A/0.4V	5V / 1.5kW	5V / 3kW	5V / 5kW
CTL-16CLS-40A/0.4V	5V / 3kW	5V / 6kW	5V / 10kW
CTL-16CLS-80A/0.4V	5V / 6kW	5V / 12kW	5V / 20kW
CTL-24CLS-200A/0.4V	5V / 15kW	5V / 30kW	5V / 50kW
CTL-36CLS-400A/0.4V	5V / 30kW	5V / 60kW	5V / 100kW
CTL-60CL-800A/0.4V	5V / 60kW	5V / 120kW	5V / 200kW
CTL-100CL-2000A/0.4V	5V / 150kW	5V / 300kW	5V / 500kW

[Connection]



[Specification] $T_a=25^\circ\text{C}$

Model		PTD-1S	PTD-2S	PTD-3S
Power supply circuit system and voltage		1Ø 100V-2 wires type (50/60Hz)	1Ø 200V-2 wires type (50/60Hz) 1Ø 100V / 200V-3 wires type	3Ø 200V-3 wires type (50/60Hz)
CT sensitivity adjustment		Choose applied CT (Refer applied CT, rating power matrix)		
Output voltage		0 ~ 5VDC/0 ~ rating power		
Maximum measuring range		0 ~ 10VDC / 0 ~ 200% of rating power (but, not beyond continuous rating current of CT)		
Response time		0→FS output stable time :1.2 s		
Ripple voltage		Ripple voltage :100mVp-p (typ)		
Overall accuracy		± 2%FS (50 / 60Hz sine wave current power factor 1)		
Withstand voltage		AC2000V(50/60Hz), 1min (Power supply terminal in a lump-output terminal in a lump)		
Insulation resistance		DC500V, ≥100MΩ (power supply terminal in a lump-output terminal in a lump)		
Operating temperature		-20℃~ +50℃ , ≤85%RH, no condensation		
Mounting system		Accessory of metal part for DIN rail mounting, mounting direction free		
Applied wire for terminal	to Power supply	AWG14 ~ 22/single or strand wire		
	to Current Sensor	AWG16 ~ 26/single or strand wire		
Mass		approximately 120g		