

Super small PT for power measurement

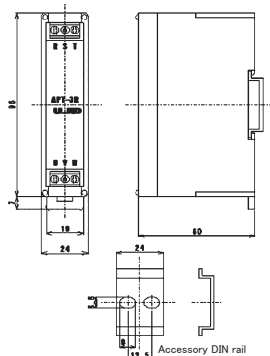


Model APT-3R (200V:1V)

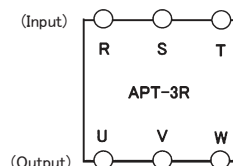
[Features]

- Built in phase compensation circuit with super small transformer and output voltage feedback, and realizing excellent ratio error and phase shift characteristic
- Possible to reduce size and weight compared with PT for instrumentation
- Standardizing voltage ratio 200V:1V for direct interface to electrical circuit
- Corresponding to wide primary voltage of 75 ~ 250V
- With self powered system, external power supply for control is unnecessary

[Outline drawing]



[Connection]



	Input	Output	Remark
1Φ 100V 2W	R-S 100V	U-V 0.5V	Neutral lines S terminal
1Φ 200V 2W	R-S 200V	U-V 1V	
1Φ 100/200V 3W	R-S 100V	U-V 0.5V	
	S-T 100V	V-W 0.5V	
	R-T 200V	U-W 1V	
	R-S 200V	U-V 1V	
3Φ 200V 3W	S-T 200V	V-W 1V	
	R-T 200V	U-W 1V	

[Specification] Ta=25°C

Model	APT-3R (200V:1V)
Rating primary voltage: En	200V (75V ~ 250V)
Rating output voltage ratio	200V:1V
Frequency	50Hz / 60Hz
Over voltage strength	1.4xEn/Continuous, 2xEn/1s
Ratio error	Within $\pm 1\%$ FS
Phase shift	Within $\pm 30\text{min}$
Load resistance	$\geq 100\text{k}\Omega$
Internal current consumption	8mA (typ)
Withstand voltage	AC2000V(50/60Hz), 1min (Input terminal in a lump-output terminal in a lump)
Insulation resistance	DC500V, $\geq 100\text{M}\Omega$ (Input terminal in a lump-output terminal in a lump)
Operating temperature	-10°C ~ +50°C, $\leq 80\%$ RH, no condensation, for indoor assembly, free direction for setting
Storage temperature	-20°C ~ +60°C, $\leq 80\%$ RH, no condensation
Mass	approximately 70g

[Remark]

- (1) Only for 50/60Hz of commercial power supply (only sine voltage)
- (2) Impossible to earn output during several cycles of transient
- (3) Impossible to use only between R-T as (1Φ 3W), (3Φ 3W). Please use between R-S to measure 200V as (1Φ 3W).
- (4) Within $\pm 1\%$ (typ) in case to use 100V rating
- (5) In the contents of product specification, inspection, and so on, it is based on the measurement in conditions of standard temperature, humidity, and no abnormality and no vibration, in the case of no special description. It is not guarantee all specifications in the operating temperature and all condition range.
- (6) Impossible to use in outdoor exposure.