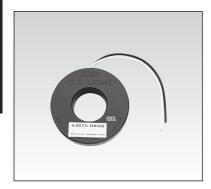
## Precision Purpose CTL-Z series

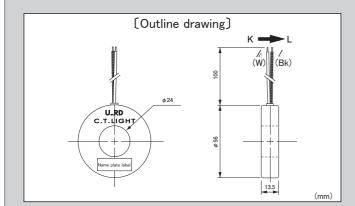
## Medium size enlarged capacity AC current sensor for precise measurement with large aperture and output wire type



## Model CTL-24-S28-20Z

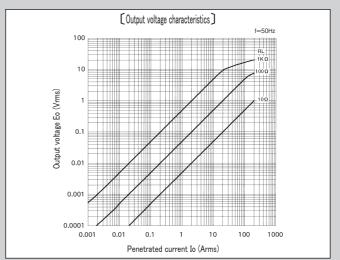
## (Features)

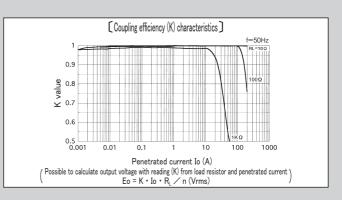
- ●Enlarged capacity model for primary current from 1mA to 280A with more secondary winding wire turn of standard model (CTL-24-S28-10Z) of large aperture of  $\phi$  24 aperture diameter for precise measurement
- ●Possible to interface to electrical circuit directly by small secondary current with high current ratio of 2000:1
- Output wire  $(0.3 \text{mm}^2 \times 100 \text{l})_{\circ}$
- Prepared mounting bracket sold separately (HLD-24) for panel mounting

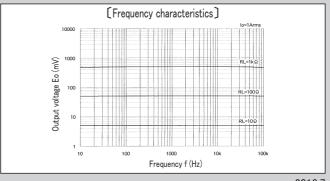


[Specification] Ta=25°C	
Model	CTL-24-S28-20Z
Primary current	1mA ~ 280Arms (50 ∕ 60Hz), R <sub>L</sub> ≦10Ω
Maximum primary current	360Arms continuous
Saturation limited current	250Arms (50 ∕ 60Hz), R∟≦1Ω
Output characteristics	Refer "Output voltage characteristics"
Linearity	Refer "Coupling efficiency [K] characteristics"  (Use the flat range of [K] characteristic in the application as the linear sensor)
Secondary windings (n)	2000±2 turn
Secondary windings resistance	62Ω (reference)
Withstand voltage	AC2000V(50/60Hz), 1min(between aperture and output wire in a lump)
Insulation resistance	DC500V, $\geq 100$ M $\Omega$ (between aperture and output wire in a lump)
Operating temperature	-20°C∼ +75°C , ≦80%RH, no condensation
Storage temperature	$-30$ °C ~ $+90$ °C , $\leq$ 80%RH, no condensation
Structure	Polycarbonate plastic case, potted by epoxy
Output wire	PVC Vinyl isolated wire (0.3mm <sup>2</sup> × 100ℓ)
Mass	approximately 62g

- Remark (1) Output voltage is changed by the penetrated current/load resistor/[K] characteristic and so on. Please set up the condition for use with careful investigation of each characteristic
  - (2) Please use with enough margin if the range of coupling efficiency [K] ≤ 0.9, because it is the range to happen the individual difference.
  - (3) Opening the secondary during turn ON is hazardous and the cause of failure, because of generating high voltage
  - (4) Please be careful of CT heating in case to use with high frequency, although this CT is basically used at 50/60Hz.
  - (5) Please refer Appendix-1 accessories list for







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