

RMS rectifier type current converter

Current converter integrated clamp type sensor and RMS converter 5A ~ 500A

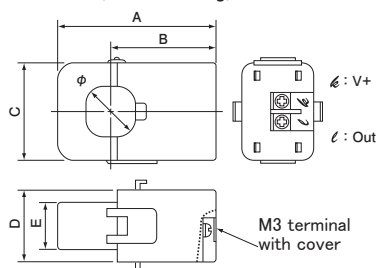


Model CTT-CLS-RMS series

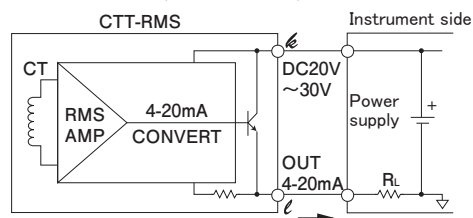
[Features]

- Detection 50/60Hz distorted wave of commercial power supply as RMS value
- Output 4~20mADC instrumentation signal directly
- Extremely simple to mount with integrated mode of clamp type sensor and converter
- Corresponding to wide range of current from 0 ~ 5A to 0 ~ 500A
- 2 wires transmission system in common use of power supply (20V ~ 30V) of data logger and PCL

[Outline drawing]



[Connection]



2 wires transmission method in common of (+) power supply of instrument

[Specification] Ta=25°C

Model	CTT-16-CLS-RMS5	CTT-16-CLS-RMS10	CTT-16-CLS-RMS25	CTT-16-CLS-RMS50	CTT-16-CLS-RMS100	CTT-24-CLS-RMS250	CTT-36-CLS-RMS500
Power supply	DC20 ~ 30V (≥25mA)						
Rating current	5 (Arms)	10 (Arms)	25 (Arms)	50 (Arms)	100 (Arms)	250 (Arms)	500 (Arms)
Output current	4 ~ 20mADC/0 ~ rating current (Recommended load resistor ≤600Ω / at power supply 24V)						
Maximum current	120%(continuous), 150%(1min)						
Linearity	±2% FS (50/60Hz sine wave)						
Response time	100ms (typ)						
Output ripple	Within 5% of output						
Withstand voltage	AC2000V(50/60Hz), 1min (Core-output terminal in a lump)						
Insulation resistance	DC500V, ≥100MΩ (Core-output terminal in a lump)						
Operating temperature	-20°C ~ +50°C, ≤80%RH, no condensation, for indoor assembly, free direction for setting						
Storage temperature	-30°C ~ +90°C, ≤85%RH, no condensation						
Fitting repeatability	≈100 times						
Output terminal	2XM3 screw terminal with terminal cover						
Screw torque	0.3N · m						
Mass	approximately 75g					approximately 200g	approximately 290g
Dimension	A	55				74.5	91
	B	40.5				49.5	61
	C	29.5				45	57
	D	31				34	40.5
	E	19				22	22
	φ	16				24	36

[Remark]

- (1) There is breakage of ferrite core inside with shocking force to the contact face(16 type)
- (2) Although core joint surface is protected from rust, in the case of rusting, possible to be recovered by removal of rust with CRC-556 (goods on the market) and paint it again. (24, 36 type)
- (3) Please use dedicated ones for the screws mounted on the output terminal