

This compact plug-in signal converter converts the secondary outputs of CTs in power substations, motor circuits, etc. into instrumentation signals. Since Type CTE adopts the true root-mean-square value operation system, it ensures particularly high reliability against distorted waves.

## Features

- Dielectric strength of 2000 V AC between input, output, and power source
- This compact and tightly mountable isolator allows the user to downsize the system.
- Both AC flexible power supply and DC power supply are available.
- Accuracy:  $\pm 0.2\%$ , Response time: 500 ms
- Shortened time of completion and high serviceability thanks to plug-in design

## Model name

WSP — C T — [ ] — [ ] — [ ] — [ ]

|     |                                   |
|-----|-----------------------------------|
| CTA | CT Converter, Rectifying type     |
| CTE | CT Converter, True RMS Value type |

|    | Input Signal | Input Resistance |
|----|--------------|------------------|
| 24 | 0-1 A AC     | 0.033 $\Omega$   |
| 25 | 0-5 A AC     | 0.0068 $\Omega$  |

|   | Output Signal  | Allowable Load        |
|---|--|-----------------------|
| A | 4-20 mA DC   | 750 $\Omega$ or less  |
| D | 0-1 mA DC  | 15k $\Omega$ or less  |
| E | 0-10 mA DC   | 1.5k $\Omega$ or less |
| G | 0-20 mA DC   | 750 $\Omega$ or less  |
| H | 1-5 V DC   | 1k $\Omega$ or more   |
| J | 0-10 mV DC   | 10k $\Omega$ or more  |
| K | 0-100 mV DC  | 100k $\Omega$ or more |
| L | 0-1 V DC   | 200 $\Omega$ or more  |
| N | 0-5 V DC   | 1k $\Omega$ or more   |
| P | 0-10 V DC  | 2k $\Omega$ or more   |
| S | Please contact us for other than those above.<br>Voltage input: 10 V or less<br>Current input: 20 mA or less |                       |

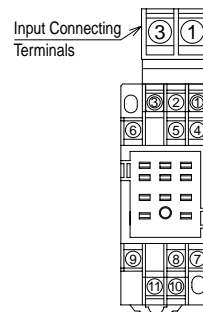
| Test Report |     |
|-------------|-----|
| X           | No  |
| T           | Yes |

| Supply Voltage |                     |
|----------------|---------------------|
| A              | 90-264 V AC 50/60Hz |
| D              | 10.8-26.4 V DC      |
| 8              | 90-121 V DC         |

## Specifications

|                                     |  |
|-------------------------------------|--|
| Accuracy:                           | $\pm 0.2\%$ fs (at 23°C)   |
| Response time:                      | 500 ms (time required to reach 90% of final value)   |
| Excessive Input:                    | 120% consecutive, 200% for 10 seconds, 1000% for 3 seconds   |
| Allowable load:                     | Voltage output: load current 5 mA or less<br>For less than 1 Vfs of output, the current is 1 $\mu$ A or less.<br>Current output: 15 V or less of voltage drop between output terminals |
| Zero & span adjustment:             | $\pm 5\%$ fs (1-turn trimmer)  |
| Output ripple:                      | 0.25% (p-p) fs or less   |
| Input condition:                    | Rated frequency 20-500 Hz  |
| Operating temperature and humidity: | -5 to +55°C, 90% RH or less (without condensation)   |
| Influence of ambient temperature:   | $\pm 0.15\%$ fs/10°C   |
| Isolation:                          | Between input, output, and power source terminals  |
| Insulation resistance:              | 100 M $\Omega$ or more with a 500 V DC megger<br>Between input, output, and power source terminals   |
| Dielectric strength:                | 2000 V AC for 1 minute<br>Between input, output, and power source terminals  |
| Power consumption:                  | Approx. 4.5 VA (AC), approx. 60 mA (24 V DC)   |
| Influence of source voltage:        | $\pm 0.1\%$ fs in the range of rated voltage   |
| Dimensions:                         | 100(H)x29.5(W)x106.5(D)mm  |

|                             |   |
|-----------------------------|---|
| Weight:                     | Approx. 150g                                      |
| Structure:                  | Plug-in (consisting of main unit and socket part) |
| Connection part:            | M3 SEMS screw part of the base socket             |
| Material of terminal screw: | Chromated iron                                    |
| Case color and material:    | Ivory, heat-resistant ABS resin (94V-0)           |
| Mounting:                   | DIN rail or wall surface                          |
| Dimensions:                 | Refer to Dimensional Drawing V                    |
| Terminal arrangement:       |   |



| No. | Symbol     | Description   |
|-----|------------|---------------|
| 1   | INPUT ~    | Input Signal  |
| 2   | NC         | No Connection |
| 3   | INPUT ~    | Input Signal  |
| 4   | NC         | No Connection |
| 5   | NC         |               |
| 6   | NC         |               |
| 7   | OUTPUT +   | Output Signal |
| 8   | NC         | No Connection |
| 9   | OUTPUT -   | Output Signal |
| 10  | POWER U(+) | Power Supply  |
| 11  | POWER V(-) |               |