

This compact plug-in converter accepts Thermocouples signal input conforming to JIS standard and provides optically isolated DC voltage or current output. This converter has a linearizer, a cold junction compensation circuit, and a burnout protection circuit as standard equipment which is required to measure temperature.

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Features
\(\star\) Fine Zero \& span adjustment by 15 turn trimmer
\(\star\) Zero \& span adjustment \(\pm 10 \%\) full scale
\(\star\) Safe design by dielectric strength of 3000 Vac
\(\star 5\) years warranty, long life
\(\star\) CE approved
\(\star\) Linearizer, Cold junction compensation circuit, and Burnout protection circuit built-in
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## Ordering code



* 2...CE approval do not adapt when power supply is 10.8 Vdc to 30Vdc.

| Specifications |  |
| :---: | :---: |
| Accuracy | $\pm 0.2 \%$ FS (at $23 \pm 10^{\circ} \mathrm{C}$ ) |
| Response time | Approx. 25ms ( 0 to 90\%) |
| Allowable load | Current output <br> 15 V or less of voltage drop <br> Voltage output <br> Load current 5 mA or less <br> * $1 \mu \mathrm{~A}$ or less if the output is less than 1 V FS |
| Zero \& span adjustment | $\pm 10 \%$ FS (15 turn trimmer) |
| Operating temperature | -5 to $+55^{\circ} \mathrm{C}$ |
| Operating relative humidity | 90\% or less (Non-condensing) |
| Temperature coefficient | $\pm 0.015 \%$ FS of span per ${ }^{\circ} \mathrm{C}$ |
| Cold junction compensation Accuracv | $\pm 0.5^{\circ} \mathrm{C}$ or less at $23 \pm 10^{\circ} \mathrm{C}$ ( $\pm 1^{\circ} \mathrm{C}$ or less for R, WR and S) |
| Cold junction compensation Temperature | $10 \text { to } 40^{\circ} \mathrm{C}$ <br> *R, S, WR thermocouple : $\pm 1^{\circ} \mathrm{C}$ |
| Linearization | Available ( $30 \%$ FS or less of R and W is out of range) |
| Burnout protection | Upscale / downscale *Please specify when you order for downscale |
| Isolation | Between input, output, and power supply |
| Insulation resistance | $100 \mathrm{M} \Omega$ or more with 500 Vdc megger <br> Between input, output, and power supply terminal |
| Dielectric strength | 3000 Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between input and output terminal |
| Power consumption | Approx. 4.4VA (AC), Approx. 63mA (DC) |
| Power supply variation | $\pm 0.1 \% \mathrm{FS}$ (within the range of rated voltage) |
| Dimensions | 84(H) X 23(W) X 106.5(D)mm |
| Weight | Approx. 130g |
| Structure | Plug-in (Body part and socket part) |
| Connection | M3 SEMS screw part of the base socket (Tightening torque $0.6 \mathrm{~N} \cdot \mathrm{~m}$ ) |
| Mountina | DIN rail or wall surface |
| Case color and material | Ivory, ABS resin, flame retardant grade UL94V-0 |
| EMC directive | EN61326-1, EN61010-1, EN IEC 63000 <br> Installation category: II, Pollution degree : 2 |
| Rated altitude | 2000 m or less |

## Terminal connections



Demensions


* Specification is subject to change without notice

