AMELEC
SIGNAL CONDITIONING

AEW510 Two wire TC/RTD Temperature Transmitter

■ FEATURE

- Input Type and range programmable for
  RTD Pt100Ω, Pt1000Ω, CU10, CU100;
  Thermocouple type K, J, E, T, R, S, B
- Output 4~20mA (Loop powered)
- DIN rail mounting with Ultra slim in 7.6 mm profile
- CE Approved & RoHS

Ultra Slim (7.6mm) type

■ TECHNICAL DATA

Input (Programmable by "TTPro" software)

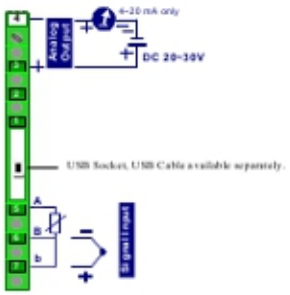
RTD Input Range	Input Impedance	T/C Input Range	Input Impedance
Pt100Ω(-200~+850°C)	≥ 10M ohm	Type K(-200~+1372°C)	≥ 1M ohm
Pt1000Ω(-200~+250°C)	≥ 10M ohm	Type J(-200~+1200°C)	≥ 1M ohm
CU10(-50~+150°C)	≥ 10M ohm	Type E(-200~+900°C)	≥ 1M ohm
CU100(-50~+150°C)		Type T(-200~+400°C)	≥ 1M ohm
		Type R(0~+1768°C)	≥ 1M ohm
		Type S(0~+1768°C)	≥ 1M ohm
		Type B(320~+1820°C)	≥ 1M ohm

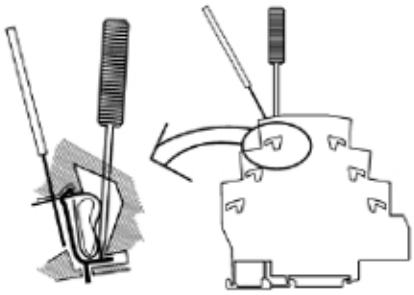
Analogue output

Power	Output Range	Accuracy	Load Resistance
Loop Powered	4 ~ 20mA	≤ ±0.2% of F.S.	≤ (Vs-12) / 0.022 (ohm)

Cold Junction: -40~85°C, Error ≤ 1.0°C
Response time: ≤ 100msec (10%~90% of FS)
Output ripple: ≤ ±0.1% of F.S.
Input O/C response: Upscale or downscale, programmable

Termination & Wiring





Environmental

Operating temp.: -20~60 °C
Operating Temperature drift: 20~95% RH, Non-condensing 0.1% F.S./10°C
Storage -20~70 °C
Protection: IP 42

Mechanical

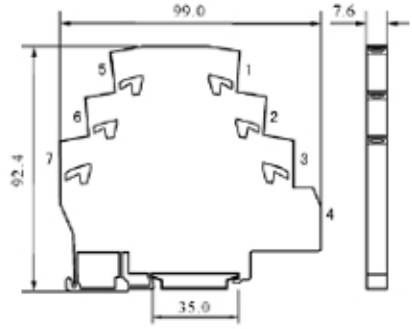
Dimensions: 7.6mm(W) x 99mm(H) x 92.4mm(D)
Housing: Self-extinguishing, ABS, UL94V0
Terminals: Spring terminal, up to 1.0 mm² wire
Mounting: 35mm DIN rail (EN50022)

Specification

EMC: EN 61326-1
Electric Isolation: Loop Power type:
AC 1.5KV for 1min; Between Input / Output
Insulation resistance: ≥ 100MΩ at 500Vdc

Software program Supplied free of charge with product

Dimensions



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