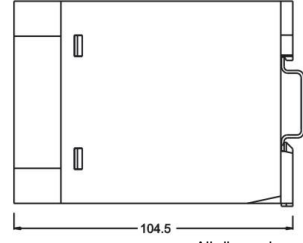
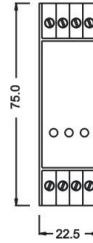


ANALOG SIGNAL CONVERTERS / ISOLATORS



All dimensions in mm

| | | | | | | | | | | | | |
|--|--|----------------|------------|---|---|-------------------|---|------------------|------------|---|-----------------|-----------------|
| AUX SUPPLY | 24VDC, 100mA maximum , Range : 18-32VDC , Ripple : 1.0 Volt P-P max | | | | | | | | | | | |
| OPERATING AMBIENT | 15-35°C, 95% RH non-condensing. | | | | | | | | | | | |
| STORAGE TEMPERATURE | -20°C to 85°C | | | | | | | | | | | |
| ISOLATION | Between I/P & O/P, 1.5KVAC Between I/P & Aux Supply, 1.5KVAC Between O/P & Aux Supply, 1.5KVAC | | | | | | | | | | | |
| INDICATION | Power on LED | | | | | | | | | | | |
| ADJUSTMENT | Zero & Span adjustments on front | | | | | | | | | | | |
| RESPONSE TIME | < 15 ms | | | | | | | | | | | |
| INPUT | DC Voltage | | | Current (mA DC) | | | Thermocouple J / K Type | | | RTD - PT100 | | |
| OUTPUT | <ul style="list-style-type: none"> • 0-10VDC, 20mA maximum • 4-20mA, 500Ω load maximum • 0-5VDC, 20mA maximum | | | | | | | | | | | |
| ACCURACY | +/- 0.7% of Full Scale@35°C ambient temperature | | | +/- 0.7% of Full Scale@35°C ambient temperature | | | +/- 0.7% of Full Scale@35°C ambient temperature + Thermocouple linearity error, +/- Cold junction compensation of 2°C | | | +/- 0.7% of Full Scale@35°C ambient temperature | | |
| | For standard products, accuracy specified is for 15-35°C ambient. Add suffix -ET (Extended Temperature) to the order code for 0-50°C ambient. | | | | | | | | | | | |
| INPUT IMPEDANCE | 10V : 100K Ohm | | | 20mA : 10 Ohm | | | - | | | - | | |
| MAX. INPUT | 100V | | | 30mA | | | 10VDC | | | 1VDC | | |
| PROTECTION | Output short circuit current = 30mA max | | | | | | | | | | | |
| CONNECTION DIAGRAM | | | | | | | | | | | | |
| | Refer Note | | | | | | | | | | | |
| ORDERING INFORMATION | Input | Output | Order Code | Input | Output | Order Code | Input | Output | Order Code | Input | Output | Order Code |
| | | | | | | | | | | | | |
| | 4-20mA | AS746-102 | 4-20mA | AS746-152 | 4-20mA | AS746-202 | 4-20mA | AS746-302 | | | | |
| | 0-75 mV | 0-10VDC | AS746-103 | 4-20mA ⁽¹⁾ | 0-10VDC | AS746-153 | K type, 0-400°C | 0-10VDC | AS746-203 | PT-100, -50 to +50°C | 0-10VDC | AS746-303 |
| | | 4-20mA | AS746-104 | | 4-20mA | AS746-154 | | 4-20mA | AS746-204 | | 4-20mA | AS746-304 |
| | 0-1 VDC | 0-10VDC | AS746-105 | 4-20mA ⁽¹⁾ | 0-5VDC | AS746-601 | K type, 0-500°C | 0-10VDC | AS746-205 | PT-100, 0-100°C | 0-10VDC | AS746-305 |
| | | 4-20mA | AS746-106 | | Note 1- Voltage across S+, S - : 15 - 18VDC (25mA max) | | | 4-20mA | AS746-206 | | 4-20mA | AS746-306 |
| | 0-2 VDC | 0-10VDC | AS746-107 | | | | | | | K type, 0-600°C | 0-10VDC | AS746-207 |
| | | 4-20mA | AS746-108 | | | | 4-20mA | AS746-208 | 4-20mA | | AS746-308 | |
| | 0-2.5 VDC | 0-10VDC | AS746-109 | | | | K type, 0-700°C | 0-10VDC | AS746-223 | PT-100, 0-300°C | 0-10VDC | AS746-309 |
| | | 4-20mA | AS746-110 | | | | | 4-20mA | AS746-224 | | 4-20mA | AS746-310 |
| | 0-5 VDC | 0-10VDC | AS746-111 | Thermocouple J / K Type | | | K type, 0-800°C | 0-10VDC | AS746-209 | PT100, 0-400°C | 0-10VDC | AS746-311 |
| | | 4-20mA | AS746-112 | | | | | 4-20mA | AS746-210 | | 4-20mA | AS746-312 |
| | | 0-5VDC | AS746-121 | | | | | 0-10VDC | AS746-211 | | 0-10VDC | AS746-313 |
| | -3/0 to +10VDC | -3/0 to +10VDC | AS746-113 | Input | Output | Order Code | K type, 0-1000°C | 4-20mA | AS746-212 | PT-100, 0-500°C | 4-20mA | AS746-314 |
| | 0-10 VDC | 4-20mA | AS746-114 | K type, -200 to +200°C | 0-10VDC | AS746-215 | | K type, 0-1200°C | 0-10VDC | | AS746-213 | PT-100, 0-600°C |
| | 0-50 VDC | 0-10VDC | AS746-115 | K type, -100 to +100°C | 4-20mA | AS746-216 | J type, 0-300°C | | 4-20mA | AS746-214 | PT-100, 0-700°C | |
| | | 4-20mA | AS746-116 | 0-10VDC | AS746-217 | 0-10VDC | | AS746-218 | 0-10VDC | AS746-227 | | 0-10VDC |
| | 0-100VDC | 0-10VDC | AS746-117 | K type, 0-100°C | 0-10VDC | AS746-219 | J type, 0-500°C | 4-20mA | AS746-228 | PT-100, 0-800°C | 0-10VDC | AS746-318 |
| | | 4-20mA | AS746-118 | 4-20mA | AS746-220 | 0-10VDC | | AS746-221 | 0-10VDC | | AS746-229 | 0-10VDC |
| | 0-200VDC | 0-10VDC | AS746-119 | K type, 0-200°C | 4-20mA | AS746-222 | J type, 0-700°C | 4-20mA | AS746-230 | PT-100, -50 to +200°C | 4-20mA | AS746-320 |
| | | 4-20mA | AS746-120 | | 0-10VDC | AS746-221 | | 0-10VDC | AS746-231 | | 0-10VDC | AS746-321 |
| | 0-15VDC | 0-10VDC | AS746-602 | K type, 0-200°C | 4-20mA | AS746-222 | J type, 0-800°C | 4-20mA | AS746-231 | | 4-20mA | AS746-322 |
| | | 4-20mA | AS746-604 | | 0-5VDC | AS746-603 | | 0-10VDC | AS746-232 | | 4-20mA | AS746-233 |
| | For standard products, accuracy specified is for 15-35°C ambient. Add suffix -ET (Extended Temperature) to the order code for 0-50°C ambient. | | | | | | | | | | | |
| NOTE: * Not suitable for load cell applications. | | | | | | | | | | | | |