

## IN-ATK01\_100-330

## Temperature amplifier (Type K)



Amplifier output

Amplifier input

### Function

- Temperature amplifier for Type K sensors, 0-1000°C

### Technical specifications

Electrical characteristics			Connections		
Supply voltage	V	12	Cable (=output)		
Measurement range	°C	0-1000	Type		PUR
Nominal gain	mV/°C	5	Wire cross section		4x AWG26
Absolute accuracy	%	±1	Length	mm	200
Calibration error @ 25°C	°C	±1	Cable (=temp. cable)		
Cut-off frequency	Hz	20	Type		Type K
			Wire cross section		2x AWG24
			Length	mm	600
Mechanical characteristics			Ordering information		
Dimensions	mm³	35x10x15	Art.No. IN-ATK01_100-330		
Weight	g	30			
Cable					
Amplifier output					
Wire cross section	mm²	4x 0.14			
Type		PUR			
Length	mm	1200			
Sensor input					
Type		Type K special			
length	m	max 1			

### Calibration data

For high precision measurements you have to take care of the non-linearity of Type K elements. Use the following table to compensate the non-linearity of the elements.

[°C]	Type 100 (1000°C) output voltage [mV]
0	1.35
25	125
100	507.5
200	1007.5
300	1511
400	2028.5
500	2553.5
600	3080.5
700	3603
800	4116
900	4616.5
1000	5104.5

### Connector layout

### Connector type

#### Amplifier input, temperature cable

Pin	Name	Description	Color
+			Green
-			White



#### Amplifier output, JST JWPF 4PM

Pin	Name	Description	Color
1	GND	Ground	Black
2	TK_EX1	Signal	White
3	n.c.	Not connected	
4	12 V	Power supply	Red

