

Thermo Signal Conditioners

NEW

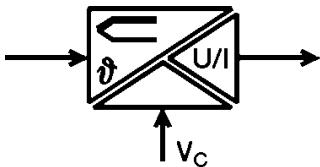
WAVEANALOG PRO Thermo

- 3-way-isolation
- Thermocouples K, J, T, E, N, R, S, B configurable
- Temperature range -200°C...+1820°C
- No adjustment necessary
- Cold junction compensation
- Configurable output signal
- Cross-connectable voltage supply via cross-connectors

Approvals:



Block diagram



Ordering data

Screw connection	
Tension clamp connection	
Input/output	

Technical data*

Input (adjustable)

Accuracy at Tu = 23°C

Output (adjustable)

Output voltage	0...10 V
Offset voltage	Max. 0.05 V
Load resistance	≥ 1 kΩ
Output current	0/4...20 mA
Offset current	max. 100 µA
Load resistance	≤ 600 Ω
Step response	max. 1.4 s
at connected filter function	max. 7.5 s
Max. wire resistance	50 Ω for 3- and 4-wire
Open circuit recognition	Output signal > 10 V or > 20 mA, LED blinks
Range of man. fine adjustment	≥ ±5%

Status LED:

General

Supply voltage:	18 VDC...24 VDC...30 VDC
Power consumption:	800 mV...850 mW...950 mW @ I output = 20 mA
Current carrying capacity of cross-connection	≤ 2 A
Operating temperature	0°C...+55°C
Storage temperature	-20°C...+85°C
Standards/specifications	EN 50179, IEC751
EMC standards	EN 50081, EN50082, EN55011
Factory setting	Type K 0...1000°C/4...20 mA; no filter;
Dimensions W/L/H	17.5/92.4/112.5 (.69/3.64/4.43)
Weight	100 g
Approvals	CE, UL, GL
Dimensions and accessories see	Page 356 + 366

* Tu = 23°C single module

PRO Thermo



Adjustment help

WAVETOOL

This service tool enables quick and uncomplicated configuration of WAVEANALOG PRO. Download from the Internet:
<http://www.weidmuller.com>
 ⇒ Products ⇒ Downloads (see page 257)

Type	Selection the thermocoupler		
	SW1	1	2
K	■	■	■
J		■	■
T	■		■
E			■
N	■	■	
R		■	
S	■		
B			

qmin	Selection of minimum temperature						
	SW1	4	5	6	7		
0°C		■	■	■	■		
-10°C			■	■	■		
-20°C			■	■	■		
-30°C				■	■		
-40°C				■	■		
-50°C				■	■		
-100°C				■	■		
-150°C				■	■		
-200°C				■	■		
+50°C		■	■				
+100°C		■	■				
+150°C			■				
+200°C		■	■				
+250°C			■				
+500°C							

Span	Selection of temperature span				
	SW2	1	2	3	4
+100°C	■	■	■	■	■
+150°C	■	■	■	■	■
+200°C	■	■	■	■	■
+250°C	■	■	■	■	■
+300°C	■	■	■	■	■
+350°C	■	■	■	■	■
+400°C	■	■	■	■	■
+450°C	■	■	■	■	■
+500°C	■	■	■	■	■
+550°C	■	■	■	■	■
+600°C	■	■	■	■	■
+650°C	■	■	■	■	■
+700°C	■	■	■	■	■
+750°C	■	■	■	■	■
+800°C	■	■	■	■	■
+850°C	■	■	■	■	■
+900°C	■	■	■	■	■
+950°C	■	■	■	■	■
+1000°C	■	■	■	■	■
+1050°C	■	■	■	■	■
+1100°C	■	■	■	■	■
+1150°C	■	■	■	■	■
+1200°C	■	■	■	■	■
+1250°C	■	■	■	■	■
+1300°C	■	■	■	■	■
+1350°C	■	■	■	■	■
+1400°C	■	■	■	■	■
+1450°C	■	■	■	■	■
+1500°C	■	■	■	■	■
+1600°C	■	■	■	■	■
+1700°C	■	■	■	■	■
+1800°C	■	■	■	■	■

Output	Selection of output				
	SW2	6	7		
0...10V	■				
0...20mA		■			
4...20mA			■		

Switching on the manual fine adjustment

man. adjust.	SW1	
	8	
off		
on	■	

Switching on the filter function

Filter	SW2	
	8	
off		
on	■	

Coordination of insulation acc. to DIN EN 50178, 04/98

Rated voltage	300 V
Surge voltage	4 kV
Oversoltage category	III
Contamination class	2
Clearance & creep. distance	3 mm (.12 in.)
Test voltage	2 kV _{eff}