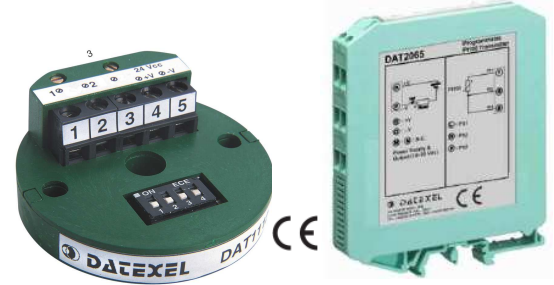


## Transmitter for thermocouple DAT 1112, DAT 2045 programable by switch

### Features:

- Input for thermocouple type J, K, N, R, S and T;
- Input for thermocouple type B or E available on request;
- Input range in °C or °F;
- Span and Zero programmable by DIP-switches;
- 4÷20 mA “ voltage linear ” output on current loop;
- High accuracy;
- EMC compliant – CE mark;
- Head mounting→DAT112, rail mounting→DAT2045;



DAT 1112

DAT 2045

### Applications:

- Monitoring and controlling temperature in: control processes, automatic systems, energy management;

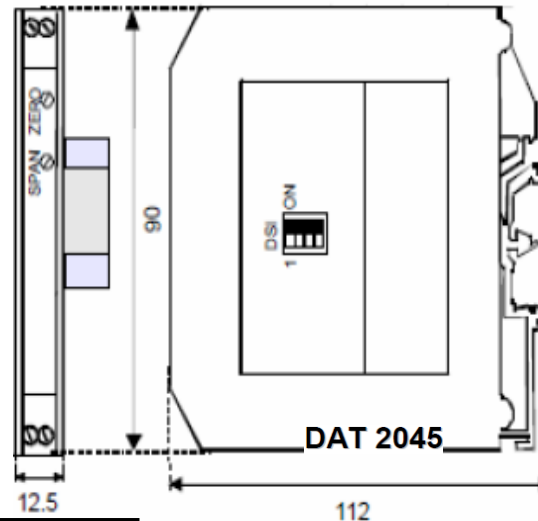
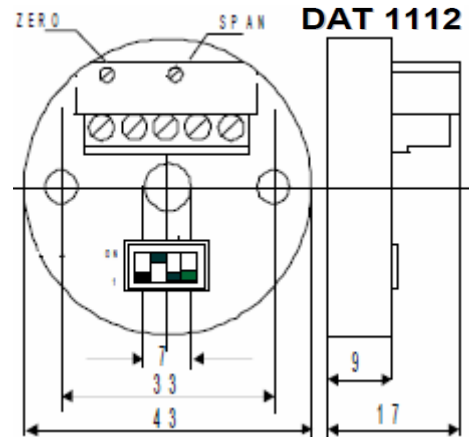
### Technical specifications:

Sensor type	Type B, E, J, K, N, R, S, T
Zero programmability	-50÷50°C or -58÷122°F
Span programmability	K: 100÷1370°C / 210÷2500°F J: 100÷950°C / 210÷1740°F R: 650÷1760°C / 1200÷3200°F S: 700÷1760°C / 1290÷3200°F T: 100÷450°C / 210÷840°F N: 150÷1300°C / 300÷2370°F B: 900÷1820°C / 1652÷3308°F E: 100÷1050°C / 210÷1920°F
Line resistance influence	0.2µV/Ω
Output type	4÷20mA
Burn -out signalling	Positive out of scale (> 20 mA)
Maximum output signal	30mA
Response time (from 10 to 90 %)	300ms
Warm-up time	3 minute
Calibration error	> ±0.1% f.s. or 0.2°C
Linearity error (*)	±0.1% f.s.
Cold Junction Compensation (CJC)	±0.5°C
Thermal drift	0.02%f.s./°C(Span>300°C/500°F)
Supply voltage (**)	12÷30Vcc
Electromagnetic Compatibility (EMC)	Immunity: EN 61000-6-2; Emission: EN 61000-6-4
Operating temperature	-20÷70°C
Storage temperature	-40÷100°C
Relative humidity (not condensed)	0÷90%
Weight	About 35gr

\* inclusive of hysteresis and variation of the power supply .

\*\* internally protected against reverse polarity .

### Dimensions (mm) :



**Our company can execute any model of thermocouple K, J, R, S, T, N, B, E**