



LF2/B-1W

1-wire contacting temperature sensor with clamping band

Measuring size: temperature

Output: DS18B20+

Highlights: contacting block: aluminium, incl. clamping band, 2-wire connection, parasite powered



Description

The LF2/B-1W cable sensor measures the surface temperature from pipes in the range of -30 up to +110°C and converts the measured value into a digital output signal. The resolution of the conversion is configurable from 9-bit to 12-bit (0,5/0,25/0,125/0,0625 K). The 1-Wire protocol allows a cost efficient wiring of multiple sensing devices as series, ring or tree topology in 2- or 3-wire connection. Optionally, each device has a serial number label, whereby a quick and easy start-up is possible. By the in scope of delivery stainless steel clamping band the aluminium block at the housing bottom side can be mounted fast and safe directly e.g. on cold and hot water pipes of heating installation. The robust housing allows the use in rough environment conditions.



Technical Specifications

Measurement range temp.	-30...+110°C, -30...+85°C (2-wire connection, parasite powered)
Sensor	DS18B20+
Accuracy	±0,5 K (-10...+85°C), sonst ±2 K
Resolution	9-12 Bit (+0,5°C up to +0,0625°C)
Circuit type	2-, 3-wire connection
Supply voltage	3...5,5 V
Current consumption	typ. 1,5 mA
Electrical connection	screw terminals max. 1,5 mm ²
Housing	polyamide with snap closing screws, colour white like RAL 9010
Cable gland	PG11 high-strength cable gland with strain relief
Material	Contacting block: aluminium
Dimensions	Housing: L 64 x W 58 x H 34,5 mm
Protection type	IP65
Protection class	III
Working temperature	-30...+110°C
Storage temperature	-20...+70°C
Installation	clamping band, band width 9 mm, chucking capacity 50-110 mm, galvanized steel (in scope of delivery)
Approvals	CE, EAC, RoHS

Variants

Article Number		
Sensor	Temperature	Serial number
LF2/B-1W-01		
DS18B20+ (12 Bit, ±0,5 K)	-30...+110°C	n/a
LF2/B-1W-01-dec		
DS18B20+ (12 Bit, ±0,5 K)	-30...+110°C	dec
LF2/B-1W-01-hex		
DS18B20+ (12 Bit, ±0,5 K)	-30...+110°C	hex



Accessories



SZ/E

Accessories



Dimensional Drawing

