MOBEYE
Temperature sensor

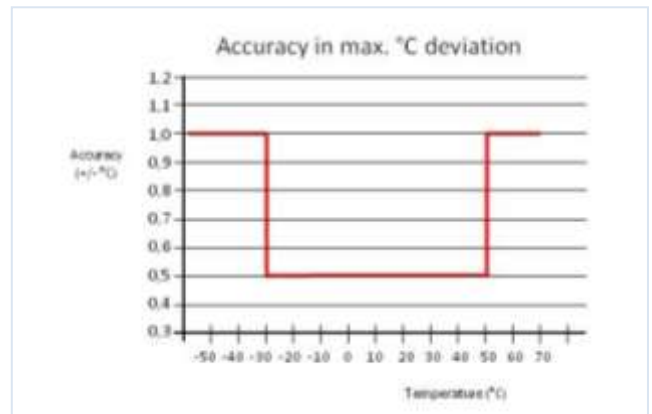## Mobeye AC-TS-E1 & AC-TS-E2

The Mobeye temperature sensors AC-TS-E1 and AC-TS-E2 are highly accurate digital sensors that can be used in combination with all Mobeye temperature products. The optimal performance is in the range between -30°C and +50°C which makes it extremely suitable for temperature measurement in building automation, medical and pharma technologies, food, industrial and mobile applications.

- **Digital sensor, combines outstanding accuracy with long term stability**
- **Fully tested and calibrated sensors with absolute measurement accuracy on delivery, no further calibration needed[*]**

Mobeye AC-TS-Ex Technical details	
Temperature range	-50 ⋯ +70°C
Accuracy T1: -30ºC to 55 ºC	± 0,5°C
T2: -50ºC to -30 and 50 to 70ºC	± 1°C
Sensor header	Ø 6 mm, length 45 mm
Cable length	AC-TS-EC1: 1 meter
	AC-TS-EC1: 10 meter
Cable diameter	4,5 mm
Extension cable (e.g. AC-EC1, AC-EC2, AC-EC3)	Max. 20 meter, Ø≥0,25 mm²
	Jack plug 3,5 mm²

Digital sensors versus RTD sensors
Mobeye chooses for a digital sensor for reasons of both accuracy and customer convenience.

Resistance temperature detectors (RTDs), such as the PT100 and PT1000 sensors must regularly be calibrated.

The Mobeye digital temperature sensor does not need calibration. The digital sensor element is equipped with a high precision ADC and an on-chip DSP core with a memory to precisely calibrate the output temperature signal. The temperature sensors are fully tested and factory-based calibrated sensors to allow absolute measurement accuracy at delivery and eliminates further calibration efforts. The digital technology also eliminates the influence of cable resistance, which allows a cable extension up to 20 meters.

[*] For applications, where calibration is required Mobeye can provide uniquely labelled sensors and delivers a quality statement with a 36 months validity. Alternatively a user-defined two-points or four-points calibration can be performed.

About Mobeye

Mobeye is specialized in high quality GSM based alarm and telemetry technology. Mobeye products focus on safety and comfort by monitoring remote property, property and equipment. Mobeye aims to design and market products that contribute to a safer world for its customer.

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