



## eM010 Infrared CAN Temperature Sensor

*eM010 is a compact high-performance contactless Infrared Temperature Sensor for Racing Applications with digital and analog outputs. It can be used to measure surface temperatures like tyres, tracks and engine parts. It can be programmed directly via CAN.*

### MAIN FEATURES

- ◆ Target Temperature Measurement Range: -70 ... +380 °C
- ◆ Accuracy: <math><0.5^{\circ}\text{C}</math> FS
- ◆ Max Refresh Rate: 10Hz
- ◆ Digital programmable software filter (moving average)
- ◆ Digital Output: CAN BUS - programmable ID and baudrate
- ◆ Protected Analog Output: 0...5V (3 programmable ranges)
- ◆ Fully programmable via CAN
- ◆ Factory calibrated
- ◆ Battery Voltage (monitored): 8-18V (20mA)
- ◆ Cable length: 20cm — 5 wires AWG24
- ◆ Ambient Temperature Range: -40 ... +125°C
- ◆ Material: anodized aluminum
- ◆ Dimensions: 32x25x13mm
- ◆ Weight: <math><25\text{g}</math> (includes cable)
- ◆ Protection grade: IP65

### WIRING

SIGNAL	FUNCTION	WIRE COLOR
+12V	+12V Power Supply	Red
GND	GND Power Supply	Black
CAN H	CAN H Line	White
CAN L	CAN L Line	Green
DA_TEMP	0..5V Analog Output	Yellow