

## SA-TMS\_LDL\_x-000

## Tyre monitoring sensor (bike & car)

### Function

- Tyre pressure sensors including RF transmitter

SA-TMS\_LDL\_B-000

SA-TMS\_LDL\_C-000

### Features

- High performance material to endure centrifugal stress ( $\leq 400\text{km/h}$ )
- Simple and robust concept to adapt the sensor on all rims
- Total mass less than 45g makes the wheel easy balancing
- Self-powered by a battery
- Power save management by "Wake up function" of the tyre monitoring sensors thanks to LF trigger  
 → refer remote control AC-TMS\_LDL\_Rem-000

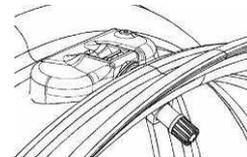


### Mechanical concept

Wheel unit sensor mounted on the rim of



a motorcycle



or a car

💡 There are two different valve diameters available: 8.5 mm and 11.5 mm (see ordering information for more details)

### Technical specifications

#### Electrical characteristics

Pressure input range	
SA-TMS_LDL_B-000...	0 - 3.5 bar
SA-TMS_LDL_C-000..	0 - 3.5 bar
Abs. ambient pressure.....	Yes
Resolution.....	13.7 mbar/ bit
Measurement error	
@0 to +50°C.....	± 70 mbar
@-20 to +125°C.....	± 175 mbar
Temperature input range	-20 to 125 °C
Resolution.....	1 °C / bit
Measurement error	
@-20 to +70°C.....	± 3 °C
@-20 to +125°C.....	± 5 °C

#### Mechanical characteristics

Weight:	
SA-TMS_LDL_B-000.....	40 g
SA-TMS_LDL_C-000.....	45 g

#### Durability

operating hours (permanent transmission)	>2160 h
Practical example (during a race weekend)	
8 hours per day	
3 days per week	
4 weeks per month	
→ Operating months.....	22.5 months

#### Environmental

Operating temperature range.....	-40 to 125 °C
Operation acceleration range.....	0-2000 G
Max. speed (centrifugal stress).....	≤400 km/h

#### RF transmission

Emmission RF.....	FSK Manchester
Nominal RF frequency.....	433.92 MHz
Frequency range.....	nominal ± 100ppm
Baudrate (RF transmission)....	11,5 kbits/s
tolerance.....	±100 ppm

#### Ordering information

Art.No.:	
WUS* for bike valve..	8.5 mm SA-TMS_LDL_B-000
WUS* for bike valve..	11.5 mm SA-TMS_LDL_B-001
WUS* for car valve...	8.5 mm SA-TMS_LDL_C-000
WUS* for car valve...	11.5 mm SA-TMS_LDL_C-001

WUS\* = Wheel unit sensor