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SA-TMS_LDL_x-000 — Tyre monitoring sensor (bike & car)

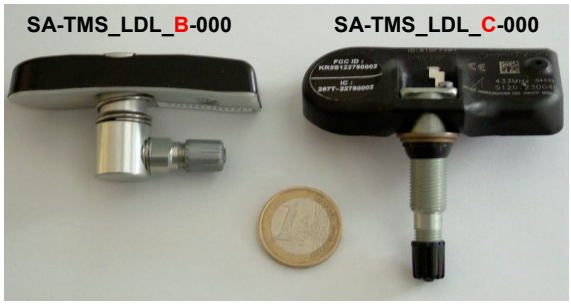
Function

- Tyre pressure sensors including RF transmitter

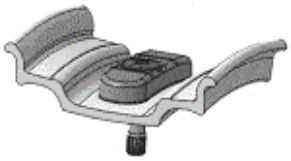
Features

- High performance material to endure centrifugal stress (≤ 400km/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

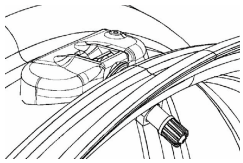
There are two different valve diameters available: 8.5 mm and 11.5 mm (see ordering information for more details)



Mechanical concept
Wheel unit sensor mounted on the rim of



a motorcycle



or a car

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 to125	°C
Resolution.....	1	°C / bit
Measurement error		
@-20 to +70°C.....	± 3	°C
@-20 to +125°C.....	± 5	°C

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

WUS* = Wheel unit sensor

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

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

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