

# MS1

## Multisensor RF

MULTIPURPOSE WIRELESS SENSOR FOR MONITORING OF MANY DIFERENT VALUES. IT MEASURES ALL THE VALUES IN PRESELECTED TIME INTERVAL AND SENDS THEM TO THE LEVEL MONITORING UNIT

### USAGE AND CHARACTERISTICS

- » Wagon bearing box Temperature sensor
- » Open / Close door sensor
- » Wagon loading Sensor
- » Axle revolution counter
- » Wagon accelerometer and crash sensor
- » Cargo space temperature, humidity and lightening sensor
- » Incline sensor
- » Air pressure sensor



### MEASURES AND TRANSMITS

- » Temperature of pad [°C]
- » GSM cell ID and signal strength
- » Ambient temperature [°C]
- » Magnetism [T]
- » G sensor - number of rotation
- » G sensor - incline
- » G sensor - vibrations
- » G sensor - acceleration and crash
- » Illumination sensor - lightening
- » Air pressure sensor
- » Analog voltage input



# MS1 Multisensor RF

MULTIPURPOSE WIRELESS SENSOR FOR MONITORING OF MANY DIFFERENT VALUES. IT MEASURES ALL THE VALUES IN PRESELECTED TIME INTERVAL AND SENDS THEM TO THE LEVEL MONITORING UNIT

## TECHNICAL PARAMETERS

<b>ANTENNA</b>	RF	Internal	
<b>BATTERIES</b>	Type and capacity	LiSoC non rechargeable	3600 mAh
	Battery life	10 years	
<b>SENSORS</b>	3 dimensions G sensor	Number of turns	
		Detection of Axle vibrations	
		G-shock detection	
		Anti-theft Detection	
		Blocked axle detection	
		8g, +/- 2 %	
	3 dimensions magnetic sensor	5 mT, +/- 2 %	
	Temperature sensor	-35°C up to +70°C, +/- 0,5 °C	
	Humidity	0 % - 100 %, +/- 2%	
Ambient light	0,01 - 83 000 Lux, +/- 0,3 %		
Pressure	20 - 110 kPa, +/- 0,4kPa		
Analog input	0 - 10 V, +/- 2 %		
<b>RF SENSOR INTERFACE</b>	Frequency	2,4 GHz	
	Type	nRF	
	Distance from receiver	max 30 m	
	Data sending period	60 s	
<b>DIMENSIONS</b>	Plastic box	77 x 37 x 25 mm	
<b>TEMPERATURE RANGE</b>		-35 °C up to +70 °C	
<b>PROTECTION CLASS</b>		IP54	
<b>WEIGHT</b>	With batteries	95 g	