

DESCRIPTION

The iWIM data logger enables acquisition and processing signals from wheels load and inductive loop sensors.

The logger is designed to operate with strain gauges and piezoelectric WIM sensors.

Depending on the configuration, the iWIM data logger ensures:

- vehicle parameters measurement, including e.g., vehicle mass, axle load, group axle detection, length,
- > speed measurement in range: 0...250 km/h,
- weighing precision: A(5), B+(7), B(10) acc. to COST323,
- detection of incorrect passage,
- vehicles classification acc. to TLS 8+1 in the A1 class (other classification system such as EUR 13 or COST323 are available),
- configurable vehicle parameters limits in accordance with local regulations,
- dual tires detection / wheels width.



TECHNICAL DATA

190 V - 264 V AC or 10.5 V - 32 V DC		
20 W		
-40 + 70 °C		
CE/EMC		
IP 54		
130 x 440 x 215 mm		
3U		
0.003%		
0.024%		
Gigabyte Ethernet with RJ45 connector, UART interface available		
Strain gauges, piezoelectric sensors, inductive loops		
2 or 4 or 6		





SOFTWARE / INTEGRATION

The iWIM data logger can be a separate device or it can be integrated with the WIM Pro system. APM PRO provides the API specification necessary for WIM system integration.

The iWIM data logger can be integrated with meteorological systems and road condition sensors.

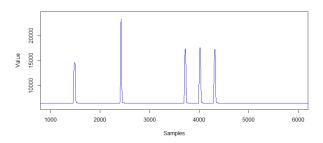


TYPICAL LAYOUT FOR ONE LANE

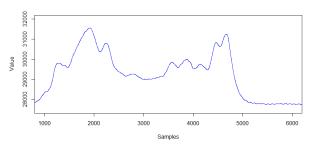
Application	Accuracy class	Classification	Dual tire detection	Vehicle position (tire-sensor contact point)	Layout Loop/Strain gauges/Piezo
Direct enforcement	A(5)	TLS 8+1 in the A1 class	yes	yes	
Pre-selection	B+(7)	TLS 8+1 in the A1 class	yes	yes	
Pre-selection	B+(7)	TLS 8+1 in the A1 class	no	no	
Statistics	B(10)	TLS 8+1 in the A1 class	yes	yes	
Statistics	B(10)	TLS 8+1 in the A1 class	no	no	
Statistics	B(10)	TLS 8+1 in the A2 class	no	no	

SAMPLE CHARACTERISTICS

Signal from strain gauges



Signal from inductive loops



SAMPLE OUTPUT IN WIM PRO SOFTWARE



