Reliable Data. Confident Decisions. Safe Runways. We provide accurate runway conditions reports, that comply with the new in ICAO-compliant Global Reporting Format (GRF), to enhance runway safety and expand efficiency in your airport operations.

- **Parameters measured**
  Road condition (dry, moist, wet, ice, snow, slush, chemically wet), road surface temperature, ambient temperature, water film height up to 6mm, dew point temperature, relative humidity, ice percentage, friction (calculated), Runway Condition Code (RCC)

- **Product highlights**
  Digital Runway Condition Report (RCR) and SNOWTAM report workflow; ICAO GRF compliant; easy and fast access to data and results

With reliable and proven data from the mobile runway condition sensor MARWIS and the ViewMondo RCAM software, airports around the world are keeping their runways safe with minimal effort – RCAM stands for Runway Condition Assessment Matrix. The software also supports airport operators in staying compliant with the latest ICAO GRF regulations by providing the Runway Condition Report (RCR) in the ICAO GRF format as well as a SNOWTAM report based on the Measurement Drive.

Would you like to know more? Get your DEMO now!

General	
Dimensions	Height approx. 110 mm, width approx. 200 mm, depth approx. 100 mm
Weight	1.7 kg

Admissible storage temperature	-40...70 °C
Operating rel. humidity	<95 % relative humidity non-condensing
Operating voltage	10...28 VDC on the sensor
Power consumption	Approx. 3VA without heating, 50VA with heating
Operating temperature	-40...60 °C
Operating rel. humidity	0...100 % RH
Protection type	IP68
Surface conditions	Dry, damp, wet, snow-/ice-covered, chemically wet, slush
Admissible height above absolute altitude	3000 m
Interface	RS485, 2 wire, half duplex, bluetooth, CAN

Road surface temperature	
Principle	Optical
Measuring range	-40...70 °C
Unit	°C
Accuracy	± 0.8 °C @ 0 °C
Resolution	0.1 °C

Ambient temperature	
Measuring range	-50...70 °C (°F switchable)
Unit	°C (°F switchable)
Resolution	0.1 °C

Relative air humidity	
Measuring range	0...100 %
Unit	%
Resolution	1 %
Principle	passive, calculated out of air temperature and humidity

Relative humidity above road surface	
Measuring range	0 ... 100 %
Unit	%
Resolution	0.1 %
Principle	passive, calculated out of air temperature and humidity above road surface

Dew point temperature	
Measuring range	-50 ... 60 °C
Unit	°C
Resolution	0.1 °C
Principle	passive, calculated out of air temperature and humidity
Accuracy	1.5 °C @ temperature of 0...35 °C

Waterfilm film height

Principle	Optical
Measuring range	0 ... 6000 µm Max. WFH is only achieved with concrete underground. For asphalt, the maximum measurable water film height is smaller and depends on the distance to the ground.
Unit	µm
Resolution	1 µm
Accuracy	10%

Ice Percentage	
Measuring range	0 ... 100 %
Unit	%
Resolution	1%

Friction	
Measuring range	0...1
Resolution	0.01