ARS31-UMB - INTELLIGENT ROAD SENSOR

The active ARS31 sensor is installed flush with the road/runway surface and calculates the freezing temperature by means of active cooling and heating of the sensor surface.
The freezing temperature measurement is independent of mixture.
The two-section housing design allows the combined sensor/electronics unit to be removed for maintenance purposes at any time, in just a few minutes.
In conjunction with interface converter 8160.UISO, the sensor can be built into new and existing UMB networks.
Passive sensor IRS31 and active sensor ARS31 can be combined without difficulty, in fact this is recommended.
The sensors are addressable and hence can be networked.

Technical Data	Order No.
ARS31-UMB Intelligent road sensor	8610.U050
Dimensions	Ø 120mm, height 50mm
Weight	Approx. 900g
Storage temperature	-30...70°C
Protection type	IP68
Power supply	9...36V VDC
Connector	CAGE CLAMP, WAGO (cross-section <0,5mm²)
Operating temperature	-30...70°C
Operating rel. humidity	0...100% RH
Power consumption	Approx. 30 W
Interface	RS485, baud rate: 2,400...38,400 bit/s
	(default: 19,200) cable length: 50m
Freezing point	
Measuring range	-30 .. 0 °C
Unit	°C
Accuracy	±0,5°C RMSE for Tg > -15 °C, or
	±1,5°C RMSE for Tg < -15 °C
Resolution	0.1

Accessories	Order No.
UMB Interface converter ISOCON	8160.UISO
Spare part cap ARS31-UMB	8610.DEC
Surge Protector UMB	8379.USP

Replaceable sensor/electronics
Mixture-independent measurement

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