

ARS31-UMB – Intelligent Road Sensor

The active ARS31-UMB sensor is flush-mounted in the 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 the interface converter 8160.UISO, the sensor can be built into new and existing UMB networks.

Passive sensor IRS31-UMB and active sensor ARS31-UMB can be combined without difficulty.

The sensors are addressable and can be networked.

Lufft ARS31-UMB Intelligent Road Sensor		Order No.
ARS31-UMB 50m cable length		8610.U050
Technical Data	Dimensions	Ø 120 mm, height 50 mm
	Weight	approx. 900 g
	Storage temperature	-40 ... 70 °C
	Protection type	IP68
	Op. power consumption	9 ... 36 VDC
	Plug	CAGE CLAMP, WAGO (cross-section < 0.5 mm ²)
	Op. temperature range	-40 ... 70 °C
	Operating humidity range	0 ... 100 % RH
	Power consumption	approx. 30 W
	Interface	RS485, baud rate: 2,400 ... 38,400 bit/s (default: 19,200)
Freezing point	Measuring range	-20 ... 0 °C
	Accuracy	±0.5 °C RMS for Tg > -15 °C, or ±1.5 °C RMS for Tg < -15 °C (at NaCl)
	Resolution	0.1
Accessories	UMB Interface converter ISOCON-UMB	8160.UISO
	Spare part cap ARS31-UMB	8610.DEC
	Surge protector	8379.USP
	Digital-analog-converter DACON8-UMB	8160.UDAC



Order No. 8610.DEC

Replaceable sensor/electronics
Mixture-independent measurement

