



- ▶ Active sensor (allows a very accurate estimate of the freezing temperature of the road surface)
- ▶ Active measurement obtained by measuring the freezing temperature of a mix of water and thawing agent stowed into the sensor (process independent of any type of thawing agent present on the surface)

DQA354 is an active sensor, which performs measurements by cooling a sensor cell (Peltier cell) to a temperature of 15 °C lower than that of the road surface. This series brings a great advantage in airport applications, where the thawing agent is not allowed, it also ensures the accuracy of the measurement of the freezing temperature as required by the European standard EN15518. DQA354 has RS485 output with an open protocol suitable for connection to LSI LASTEM and Boschung data loggers as well as third part integration systems. DQA354 sensor is made by Boschung Mecatronic AG.

Technical Specifications

Code	DQA354	
Application	Airport	
Housing	Not Included (see Accessories) Housing with internal connectors. It allows a very easy and fast connection of the sensor when the housing is fixed on the road surface. It makes this sensor becomes very suitable in airports applications	
Cable	Not included (see Accessories)	
Freezing point temperature	Measurement range	-30...0°C
	Accuracy	-15...0°C: ± 0.5°C -15...30°C: ± 1.5°C
	Resolution	0.1°C
Output	Output	RS485
	Protocol	Open protocol E-Log compatibility

Power supply	Power supply	12...24 Vdc
	Power consumption	< 0.5 W @ 12 Vdc
Others	Operative temperature	-40...70°C
	Dimensions	<ul style="list-style-type: none"> • Sensor: 90 mm Ø; 42 mm depth • Housing (airports): 330x150x43 mm
	Weight	<ul style="list-style-type: none"> • Sensor only: 1.7 kg • Housing (airports): 3.8 kg
	Protection	IP68
	CE	EN61000-6-1; EN61000-6-2; EN61000-6-3; EN61000-6-4
	MTBF	>60,000 h

Accessories

	CCCFA2930	Connected cable for DQA354 sensor. L=30 m
	CCCFA2960	Connected cable for DQA354 sensor. L=60 m
	CCCFA2990	Connected cable for DQA354 sensor. L=90 m
	MG0350	Connector for DQA354 sensor (spare part)
	MW3032.R	Prodofix resin for installation of the sensors housing inside the concrete. 3 MW3032 are recommended for 2 pavement sensors. Weight: 3 kg
	DYA350	Case for DQA354 sensor