

ROAD SURFACE TEMPERATURE, ROAD CONDITIONS, WATER FILM



This sensor accurately reports the following parameters:

- Road surface temperature
- Road conditions
- S Water film thickness on the pavement.



Different versions of the same sensor are made to measure also the underground temperature using separate sensor units. DQA356 has RS485 output with an open protocol suitable for connection to LSI LASTEM and Boschung data loggers as well as third part integration systems.

DQA356 sensor is made by Boschung Mecatronic AG.

Technical Specifications

Code	DQA356.0C	DQA356.0E	DQA356.1E	DQA356.2E
Including underground temperature sensors (number)	No	No	1	2
Application	Airport	Roads		
Housing	Included 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	Included Housing with internal terminals to sensors		
Cable	Not included BOS998 cable (each meter) BOS999 connector	L = 30 m included (connection by terminal inside the housing) Other cable length possible (BOS998)		



ISI sa-nv : Instrumentation for Science and Industry Rue du Doyenné 3, Dekenijstraat / 1180 Brussels – Belgium Tel : +32 2 343 30 81 - email : sales@isi-be.eu - Web : hse.isi-be.eu





DQA356

Common Technical Specifications

Pavement surface temperature	Measurement range	-40÷80°C	
	Accuracy	15÷10°C: ± 0,2°C; o ± 0,8°C	
	Resolution	0,1°C	
Surface condition	Measurement	N.5 status: Dry, Wet, Moist, streaming water, Slippery (EN15518-3)	
Water film thickness	Measurement range	0÷10 mm	
	Accuracy	0,2÷3 mm: ± 30%	
	Resolution	0,01 mm	
Separate underground Temperature (0, 1 or 2 temperatures). The "n" after the PN indicates the number of separate sensors	Measurement range	-30÷75°C	
	Accuracy	1°C	
	Resolution	0,1°C	
	Cable lenght	43 cm	
Output	Output	RS485	
	Protocol	Open protocol E-Log compatibility	
Power supply	Power supply	12 ÷ 24 Vdc	
	Power consumption	< 0,5W a 12 Vdc	
Others	Dimensions	 Sensor: 90 mm Ø; 42 mm depth Housing (roads): 135 mm Ø; 51 mm depth Housing (airports): 330x150x43 mm 	
	Weight	 Sensor only 1,1kg Housing (roads): 0,5 kg Housing (airports): 3,8 kg 	
	Protection	IP68	
	CE	EN61000-6-1; EN61000-6-2 EN61000-6-3; EN61000-6-4	
	MTBF	>60.000 ore	

Accessories

BOS998	Cable for DQA356.nC sensor Extra cable for DQA356.nE (each meter)
BOS999	Connector for DQA356.nC sensor (to be purchased with the cable)
MW3030	Prodofix resin for installation of the sensors housing inside the concrete



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