



This sensor accurately reports the following parameters:

- ▶ Pavement surface temperature
- ▶ Pavement conditions
- ▶ 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 third part integration systems.

### Technical Specifications

Code	DQA356.0	DQA356.0E	DQA356.1E	DQA356.2E
				
<b>Including underground temperature sensors (number)</b>	No	No	1	2
<b>Application</b>	Airport	Roads		
<b>Housing</b>	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	Included Housing with internal terminals to sensors. It allows a very easy and fast connection of the sensor when the housing is fixed on the road surface.		
<b>Cable</b>	Not included (see Accessories)	L = 30 m included (connection by terminal inside the housing)		

### Common Technical Specifications

<b>Pavement surface temperature</b>	Measurement range	-40...80°C
	Accuracy	-15...10°C: ± 0.2°C; or ± 0.8°C
	Resolution	0.1°C
<b>Surface condition</b>	Measurement	N.5 status: Dry, Wet, Moist, streaming water, Slippery (EN15518-3)
<b>Water film thickness</b>	Measurement range	0...10 mm
	Accuracy	± 30%
	Resolution	0.01 mm
<b>Separate underground Temperature (0, 1 or 2 temperatures). The "n" after the PN indicates the number of separate sensors</b>	Measurement range	-30...75°C
	Accuracy	± 0.01°C
	Resolution	0.1°C
	Cable length	43 cm
<b>Output</b>	Output	RS485
	Protocol	Open protocol
<b>Power supply</b>	Power supply	12...24 Vdc
	Power consumption	< 0.5W a 12 Vdc
<b>Others</b>	Dimensions	<ul style="list-style-type: none"> <li>• Sensor: 90 mm Ø; 42 mm depth</li> <li>• Housing (roads): 135 mm Ø; 51 mm depth</li> <li>• Housing (airports): 330x150x43 mm</li> </ul>
	Weight	<ul style="list-style-type: none"> <li>• Sensor only 1.1kg</li> <li>• Housing (roads): 0.5 kg</li> <li>• Housing (airports): 3.8 kg</li> </ul>
	Protection	IP68
	CE	EN61000-6-1; EN61000-6-2 EN61000-6-3; EN61000-6-4
	MTBF	>60.000 h

### Accessories

	<b>CCCFA2930</b>	Connected cable for DQA356.0 sensor. L=30 m
	<b>CCCFA2960</b>	Connected cable for DQA356.0 sensor. L=60 m
	<b>CCCFA2990</b>	Connected cable for DQA356.0 sensor. L=90 m
	<b>MG0350</b>	Connector for DQA356.0 sensor (spare part)
	<b>MW3032.R</b>	Prodofix resin for installation of the sensors housing inside the concrete. 3 MW3032 are recommended for 2 pavement sensors. Weight: 3 kg
	<b>DYA350</b>	Case for DQA356.0 sensor