

ACTIVE FREEZING POINT

DQA354.C



- ▶ Active sensor (allows a very accurate estimate of the freezing
- ▶ 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

DQA354.C 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.C 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.C sensor is made by Boschung Mecatronic AG.

Technical Specifications

| Code | DQA354.C | |
|----------------------------|---|-----------------------------------|
| Application | Airport | |
| 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 | |
| Cable | Not included BOS998 cable (each m) BOS999 connector | |
| Freezing point temperature | Measurement range | -30÷0°C |
| | Accuracy | -15÷0°C: ± 0,5°C |
| | Resolution | 0,1°C |
| Output | Output | RS485 |
| | Protocol | Open protocol E-Log compatibility |



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|---------------------|-----------------------|--|
| Power supply | Power supply | 12 ÷ 24 Vdc |
| | Power consumption | < 0,5W a 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 ore |

Accessories

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|--|---------------|--|
| | BOS998 | Cable for DQA354.C sensor Extra cable for DQA354.E (each meter) |
| | BOS999 | Connector for DQA354.C sensor (to be purchased with the cable) |
| | MW3030 | Prodofix resin for installation of the sensors housing inside the concrete |

