





- Ultra-sonic technology with wide range temperature compensation
- Snow Distance/Depth and Air temperature measurements
- Present weather information: Snow intensity, snowing starting time (RS485)
- Analogue (4...20 mA) and digital (RS485 Modbus) outputs
- Air temperature compensation
- Low power consumption

The robust design of DQL011.1 makes it the ideal solution for reliable measurement of snow-depth in extreme conditions. The additional air-temperature detection feature guarantees precise readings over a wide temperature range. The powerful ultrasonic impulses emitted by this sensor deliver reliable readings even when there is a difficult reflection ratio, as is the case with powdery or fresh snow. The sensor is characterized by a high level of operating reliability, low energy consumption and ease of use in the field.

## **Technical Specifications**

PN	DQL011.1	
Snow level	Principle	Ultra-sonic (frequency 50 kHz)
	Range	0.710 m (snow distance from the sensor)
	Resolution	1 mm
	Accuracy	± 1 cm
	Beam width	12°
Air temperature	Principle	Semiconductor in radiant shield
	Range	-4060 °C
	Resolution	0.1 °C
	Accuracy	< 0.15%
General Information	Power supply	10.515 V DC
	Power consumption	Max 200 mA, 5 mA (stand-by)
	Energy consumption	0,5 Ah/day (1 min measuring interval)
	Output 1	N.2 420 mA 1. Snow level or distance 2. Air temperature
	Output 2	<ul> <li>RS485 (Modbus RTU)</li> <li>Snow depth</li> <li>Snow distance</li> <li>Air temperarure</li> <li>Snow intensity (Present weather)</li> <li>Snowing starting time</li> </ul>





	Operative temperature	-4060 °C
	Material	Aluminum
	Installation	H=310 m (it is suggested that the sensor be installed at least 1 m higher than the maximum expected snow level) Using DYA047 support on $\Phi$ 4565 mm mast
	Near blanking distance	0.7 m (distance from which the sensor makes the measurement)
	Connector	12 pin-connector (cable not included)
	Protection grade	IP66
	Dimensions	320 mm, Ø 180 mm
	Weight	1.2 kg
	Data logger compatibilty	E-Log, Alpha-Log

## **Accessories**

DYA047	Support for DQL011.1 on meter pole Ø 50 mm (maximum height: 4m)
MN1090.5RI	Cable L= 5 m
MN1090.10RI	Cable L= 10 m
MN1090.15RI	Cable L= 15 m
MN1090.20RI	Cable L= 20 m
MN1090.25RI	Cable L= 25 m
MN1090.50RI	Cable L= 50 m



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