

Snow level sensor



- ▶ Ultra-sonic technology with wide range temperature
- ▶ 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÷8 m
	Resolution	1 mm
	Accuracy	< 0,1% Full scale
	Beam width	12°
Air temperature	Principle	Semiconductor in radiant shield
	Range	-40÷60°C
	Resolution	0,1°C
	Accuracy	< 0,15%
General Information	Power supply	10,5÷15 Vdc
	Power consumption	Max 200 mA, 5 mA (stand-by)
	Energy consumption	0,5 Ah/day (1 min measuring interval)
	Output 1	N.2 4÷20 mA 1. Snow level or distance 2. Air temperature
	Output 2	<ul style="list-style-type: none"> • RS485 (Modbus RTU) • Snow depth • Snow distance • Air temperature • Snow intensity (Present weather) • Snowing starting time

Operative temperature	-40÷60°C
Material	Aluminum
Installation	H. 3÷10 m, using DYA047 support on 45÷65 mm diameter mast
Connector	12 pin-connector (cable not included)
Protection grade	IP66
Dimensions	320 mm, Ø 180 mm
Weight	1,2 Kg
Data logger compatilby	M-Log (ELO008), R-Log (ELR515.1), E-Log, A-Log, Pluvi-ONE

Accessories

DYA047	Support for DQL011 on meter pole Ø 50 mm (maximum height: 4m)
MN1090	Cable each meter