NIUBOL / SUPPLIER PRODUCT

NBL-S-THR

Soil Temperature and Moisture Sensor (round type)



Manufacturer-supplied product imagery. Configuration and accessories may vary.

Product overview

A round soil temperature and moisture probe with supplier-listed TDR principle and RS485 or analog output options. Offered through Adaptive AgroTech.

Selection and commercial terms

Confirm the selected configuration, compatibility, included items, price, availability, delivery and warranty terms in your quotation. Specify required power, output and installation configuration when requesting supply.

Document basis

Compiled by Adaptive AgroTech on 2 November 2026 from the selected supplier technical material and the official sources identified below. This compilation date is not a manufacturer release date. Source-specific conditions and measurement limitations remain applicable.

Technical specifications

Current technical specifications

Temperature measuring range	-50 to 100 °C
Temperature resolution	0.1 °C
Temperature accuracy	±0.5 °C
Moisture measuring range (source units)	0-100% RH, as printed
Moisture resolution	0.1%
Moisture accuracy	±3%
Power supply	DC 12-24 V
Output options	RS485 / 4-20 mA
Operating temperature	-40 to 80 °C
Protection class (supplier statement)	IP68
Measurement principle	TDR

Configuration notes and measurement limits

1. The current supplier text/quotation give a -50 °C lower measurement limit; the older catalogue gives -40 °C. Confirm the supplied version.

2. Power consumption remains unconfirmed: the older catalogue contains both 1.8 mW and approximately 0.3 W, and the refreshed text does not resolve the conflict.

3. Soil-moisture values are printed in %RH. Confirm the moisture basis and calibration; they have not been converted to volumetric water content.

Source references

[1] Supplied model-specific technical source
https://drive.google.com/file/d/1onGXOUPPs-Tuk90lY8_60DvuvQz244Ad/view?usp=drivesdk

[2] Adaptive AgroTech product listing
https://adaptiveagrotech.com/products/niubol-nbl-s-thr