Sensor for measuring the moisture in materials FHA 696 GF1
For determining the moisture content in granulated materials such as wood chips, wood pellets, and sawdust



- The sensor operates on the principle of an open plate capacitor. The moisture contained in a material can be measured in terms of that material's dielectric constants.
- Moisture content can be determined in a matter of seconds - in wood chips or wood pellets, and sawdust, in grain and cereals, and other granulated materials.
- The characteristics of the materials to be measured can be specified on a highly customized basis; a wide variety of granulates, e.g. various cereal types, can thus be measured

Technical Data

Measuring principle	capacitive
Measuring range	0 to 99.9 % water content as a weight percentage H_2O
Resolution	0.1 %
Measuring radius / penetration depth	approx. 10 cm around the sensor
Temp. range of material	+5 to +40 °C
Operating temp. range	+5 to +40 °C
Storage temp. range	-20 to +70 °C
Signal output	ALMEMO® (voltage)
Power supply	5 V from ALMEMO® measuring instrument
Current consumption	approx. 5 mA

Dimensions	
Sensor head	Ø = 22 mm, length = 200 mm Rounded tip
Extensions	3 pieces, screw-on Ø = 18 mm, length = 280 mm
End piece	Plastic Ø = 22 mm, length = 30 mm
Cable terminal	Mountable male connector on sensor head
Cable	PVC, length = 2 meters with ALMEMO® connector The cable is led through the extension tubes and end pieces.



Variants	Order no.
Sensor for measuring moisture in granulated wood chips and pellets comprising:	
Sensor head, 3 screw-on extensions, end piece, connecting cable 2 meters, with ALMEMO® connector programmed for wood chips (also programmable for wood pellets; if required, please indicate) including carry case	**FHA696GF1**
Test block for FHA696GF for wood chips and wood pellets	**ZB9696PE22**

11/2025 • We reserve the right to make technical changes.