

6. Calibration curves

Calibration curve	Material	Measuring range	Scaling Analog output
625 Pellets	Wood pellets with a bulk density of 625 kg/m ³	2 - 20%	0 to 20%
640 Pellets	Wood pellets with a bulk density of 640 kg/m ³	2 - 20%	0 to 20%
655 Pellets	Wood pellets with a bulk density of 655 kg/m ³	2 - 20%	0 to 20%
670 Pellets	Wood pellets with a bulk density of 670 kg/m ³	2 - 20%	0 to 20%
685 Pellets	Wood pellets with a bulk density of 685 kg/m ³	2 - 20%	0 to 20%
1 Sawdust	Sawdust with very high atro bulk density	2 - 60%	0 to 60%
2 Sawdust	Sawdust with high atro bulk density	2 - 60%	0 to 60%
Sawdust	Sawdust with medium atro bulk density	2 - 60%	0 to 60%
4 Sawdust	Sawdust with low atro bulk density	2 - 60%	0 to 60%
5 Sawdust	Sawdust with very low atro bulk density	2 - 60%	0 to 60%
-1 Woodchips	Fine wood chips with very high atro bulk density (fine and heavy hardwood)	2 - 60%	0 to 60%
0 Woodchips	Wood chips with very high atro bulk density (heavy hardwood)	2 - 60%	0 to 60%
1 Woodchips	Wood chips with high atro bulk density (hardwood)	2 - 60%	0 to 60%
2 Woodchips	Wood chips with medium atro bulk density (hardwood/softwood)	2 - 60%	0 to 60%
3 Woodchips	Wood chips with medium atro bulk density (hardwood/softwood)	2 - 60%	0 to 60%
4 Woodchips	Wood chips with low bulk atro density (softwood)	2 - 60%	0 to 60%

5 Woodchips	Wood chips with very low atro bulk density (light softwood)	2 - 60%	0 to 60%
6 Woodchips	Coarse wood chips with very low atro bulk density (coarse and light softwood)	2 - 60%	0 to 60%
Reference	! Only for testing the instrument !		
0% = 4mA	! Only for testing the instrument !		
60% = 20mA	! Only for testing the instrument !		

6.1 Selection of calibration curve for wood chips

The calibration curves for wood chips depends on the atro bulk density (bulk density at 0% water content), the wood type (hardwood, softwood), the size of the chips as well as on the content of fine fraction.

If you are not sure which calibration curve is the best suited for your material, it is recommended to carry out a reference measurement by kiln-drying (according to EN ISO 18134-2).

Schaller Messtechnik GmbH will be happy to advise you on the selection of the right calibration curve. Please send a picture of your wood chips, placing a measuring tape to the material, to support@schaller-gmbh.at. You will receive a recommendation from us immediately.

6.2 How moisture content is defined

The device measures and shows the material's moisture content. The moisture content readings it displays are calculated in relation to the material's overall mass:

$$\%WG = \frac{M_n - M_t}{M_n} \times 100$$

M_n : Mass of the sample with average moisture content

M_t : Mass of the sample with zero moisture content

%WG: Moisture content (in accordance with EN ISO 18134-2)