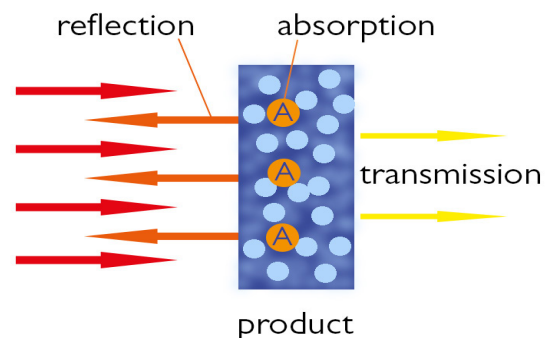
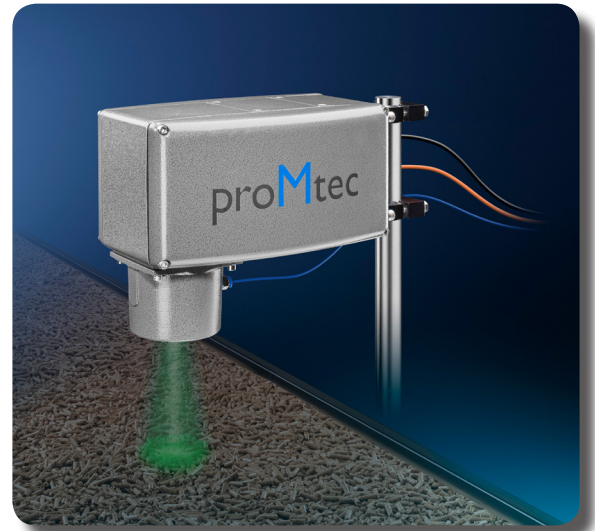


OMC 2500

The OMC 2500 measures the moisture of your product with highest reliability and precision. The measurement is done contactlessly and directly during the process. This allows an immediate reaction regarding variations of the material moisture.

The reliability of the unit is neither effected by material variations such as particle size, material height and color, nor by ambient light, temperature or humidity.

The measured values can be integrated to the process control via various interfaces.



Functional principle

To determine the moisture content, the exact water content of the product is measured.

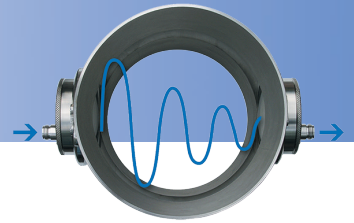
The different materials absorb near-infrared waves at the molecular level, each with specific wavelengths. The amount of reflection at the corresponding wavelengths is inversely proportional to the absorption in the product.

In the device the wave lengths from the NIR spectrum are

filtered, so that one wave is absorbed by water (sample beam) and another wave is outside the range of the water-absorbed wave lengths (reference beam).

The OMC 2500 sends the waves with a very high clock rate into the product. The reflected wave is measured 1000 times per second and analyzed to obtain a real measurement of high stability and precision.





Technical Data

The OMC 2500 works with electromagnetic waves in the near-infrared-range.
The measuring distance to the material should be between 100 mm and 350 mm.

- 16-bit data resolution
- digital noise filtering
- pre-programmed measurement algorithms and calibrations
- management software and configuration program compatible for PC or Mac operating systems
- dirty window detector and alarm
- enclosure: NEMA4/ IP65
- Power input: 80 - 260 V AC (50 Hz/60 Hz), 24 V DC

| standard outputs: | optional outputs: |
|-------------------------|-------------------|
| RS232/485 | Devicenet |
| Ethernet TCP/IP | Profibus |
| Ethernet UDP | Profinet |
| 3 analog outputs 4-20mA | Ethernet/IP |
| | Modbus |

