



# HydroTracer HT3

## Moisture specific mobile analyzer for residual water in plastic resin

For over 20 years, the HydroTracer has been supporting customers in the plastics processing industry when it comes to reliably determining the residual moisture of granulates, powders or finished parts.

The easy handling and the light and robust design allow a wide range of applications.

- › **Incoming inspection of plastic resin**
- › **Monitoring and optimization of material drying**
- › **Testing of dried resin or final inspection**

For operation, the measuring device is connected to a computer via USB cable. Step by step, the application software guides the user through the measurement process. All measurement results are automatically saved in an easy-to-read PDF report.

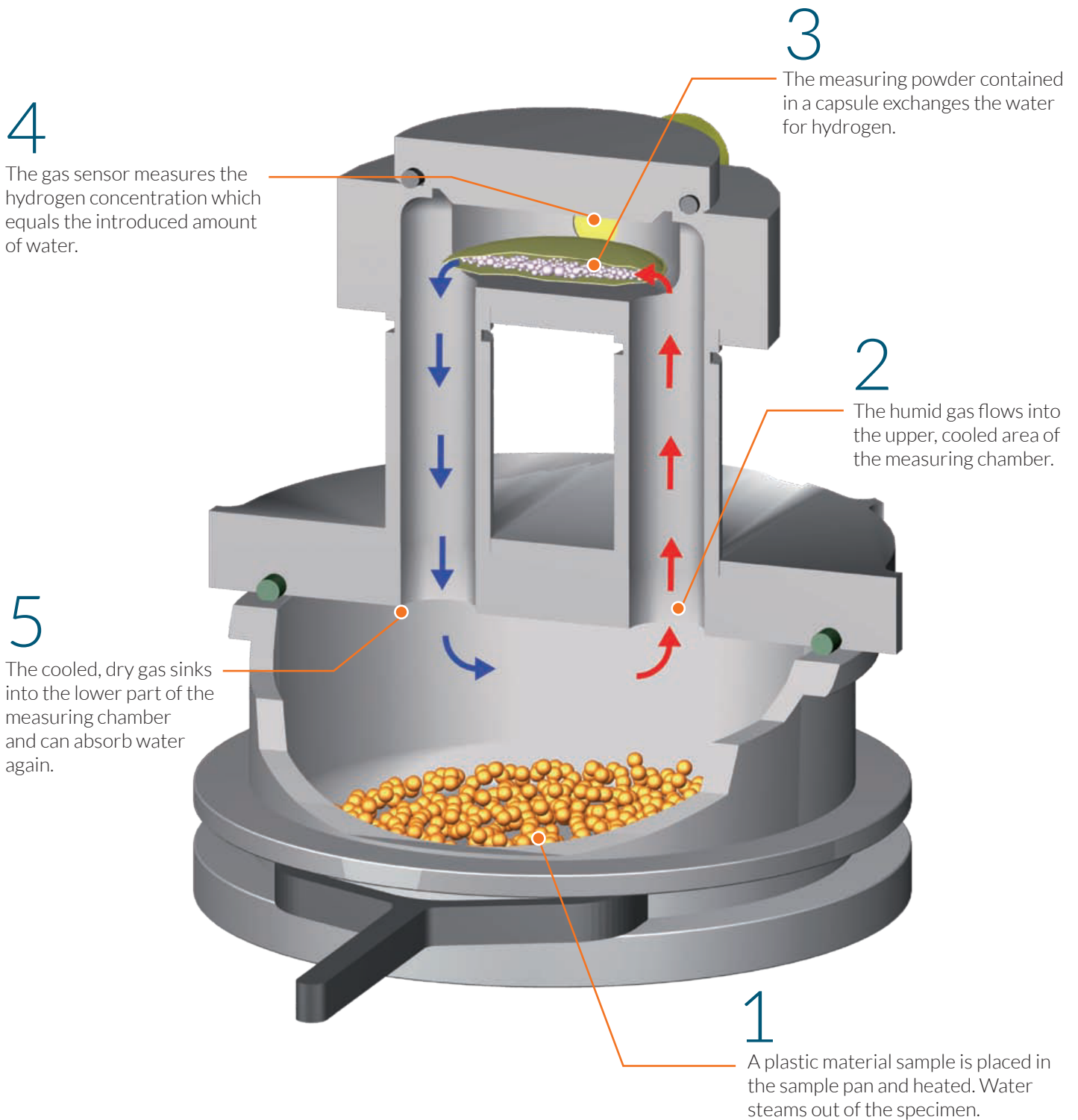
Compared to other methods such as the loss-in-weight method or capacitive moisture measurement, the HydroTracer is an absolute measuring instrument that offers the advantage of measuring the actual water content. Customizable recipes for all plastic resins are available.



- › **High Accuracy**  
Resolution 0.01 mg \ 1 ppm \ 0.0001 % H<sub>2</sub>O.
- › **Simple Operation**  
Software assistance provided by picture and text instructions.
- › **Mobile & Robust**  
Flexible use in production.

# How does it **work**?

## Measurement of trace moisture using calcium hydride



## TECHNICAL DATA

\*Computer with Windows operating system required

Measuring principle:	Calcium hydride method
Resolution:	0.01 mg \ 1 ppm \ 0.0001 % H <sub>2</sub> O
Accuracy:	± 2 % from measuring range end value
Measuring range:	0.2 - 25 mg \ 0.0001 - 5 % H <sub>2</sub> O
Measuring temperatures:	50 - 210 °C in 1 °C steps
Measuring time:	10 - 45 Minutes (typical)
Display of results:	%, ppm, mg
Interface:	USB
Electric power supply:	100 - 240 VAC, 50\60 Hz, max. 1000 W
Ambient conditions:	41-113 °F {5 - 45 °C}, 5 - 95 % rF
Dimensions:	29 x 18 x 26 cm (H x W x D)
Weight:	14.2 lb {6.4 kg}

## COMPARISON

Results from comparative measurements between Karl-Fischer-Titration (KF) and HydroTracer in [% H<sub>2</sub>O]

Material	HydroTracer HT3	KF-Titration
ABS	0.0351	0.0372
PA 6	.0195	0.0217
PA 66	0.0160	0.0150
PA 12	0.0280	0.0300
PBT	0.0252	0.0270
PC	0.0203	0.0189
PC/ABS (undried)	0.1505	0.1450
PE	0.0442	0.0403
PEI	0.0099	0.0087
PET	0.0029	0.0031
PETr (undried)	0.2073	0.2190
PETr	0.0130	0.0160
PMMA	0.0430	0.0418
PS	0.0520	0.0563