

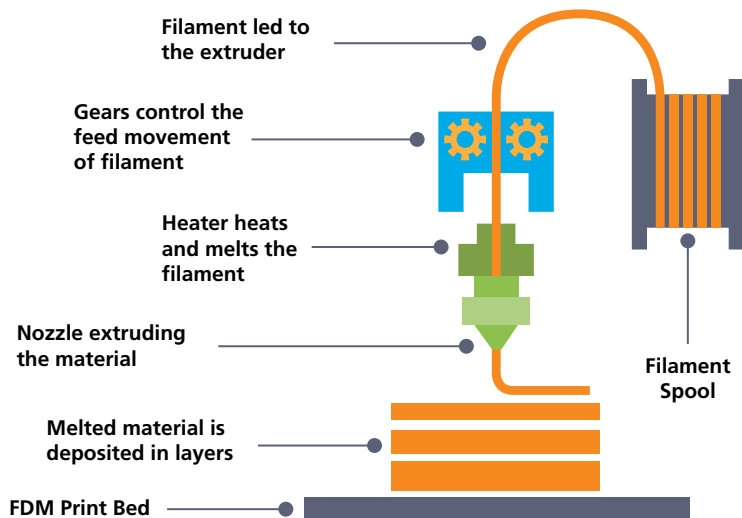


Metal Additive Manufacturing (3D printing) temperature and humidity control



Achieve the best results in metal 3D printing by reducing the presence of oxygen & humidity.

In 3D printing (additive manufacturing) with plastics, but especially with metal, temperature and humidity have large effects in the mechanical and geometrical results of the forms. During the sintering and additive manufacturing, if possible, no oxygen or humidity should be in the chamber.



3D Printing Technology

FDM (Fused Deposition Modeling) • FFF (Fused Filament Fabrication)
AM (Additive Manufacturing)

IST humidity sensors. Our proprietary polymer in the humidity sensor design with high sensitivity at very low humidity is the best option for dew point detection.

**For critical
and demanding
applications,
rely on IST.**

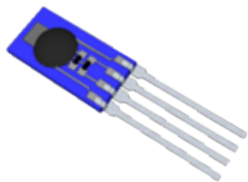
Innovative Sensor Technology, USA. Division
9516 W. Flamingo Rd. Suite 210. Las Vegas, NV 89147
Tel. +1 702 894 9891 • contact@ist-usadivision.com
www.ist-ag.com | MADE IN SWITZERLAND



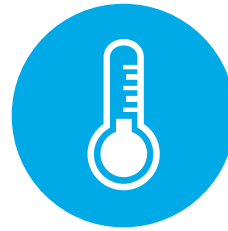
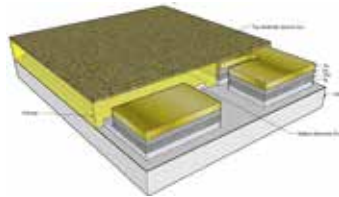
Humidity & Dew Point Sensors and Modules:

- High sensitivity at low humidities
- Calibrated with high accuracy, $< \pm 0.5\%$ RH (in range of 0% to 10% RH)
- Low hysteresis and long-term stability, low drift (less than 0.1% RH/year)
- Modules fully calibrated and temperature compensated and Digital I2C output, with high accuracy of temperature and humidity measurements
- Dew point down to -60°C

Humidity Sensor



Humidity Sensor



Temperature Sensors:

- Smallest platinum temperature sensor in the world $0.75 \times 0.75\text{mm}$
- From 50 to 10.000Ω ohm.
- Class A F0.15 valid in the range -200 to $+600^\circ\text{C}$
- Simple linearization and high sensitivity
- Excellent long-term stability
- High accuracy up to 1/10 DIN ($\pm 0.012\%$)

Platinum



RTDs



IST Innovative Sensor Technology

Custom designs for all your applications. Speed up your product design phase by designing application-specific sensor components pre-assembled for easy system integration. Our IST experts will help you find the right sensor solution to fit your requirements.

