

To design customer specific sensor solutions and to build development samples sensorsolutions , feed thrus and so on we are equipped with the most of the important key processes and laboratory devices.

Of course the following equipment can be used for investigation of failed units from customers too. So we can support customers to find out the root of fail functions.

The following shall give you a short overview:

Everything starts on an AutoCAD workstation, where we design sensor die layouts, mechanical housings and also printed circuit boards.



To mount sensor dies into metallic or ceramic housings for high temperature applications (up to 225°C / 440°F) we installed a glass soldering process working with a special glass lot at melting temperature of about 480°C. On this way we can avoid all the problems people experience with most kind of glue in sensor solutions for such temperature ranges.



Electrical connection of the sensor dies can be done by Au or Al wire bonding.



To measure leakage rate of built housings for sensors and glass feed thrus we use our He-leakage tester.



To manufacture development samples of customer specific housings we have Laser welder and TIG circular welder in house and acces to eb-weld capacity in Switzerland via our partner company Sensotreme GmbH.



And finally to measure a finished product we have a semi-automated 12 channel measurement stand which can be used for measurements in

Temperature ranges
from -70°C to 180°C
(-90°F to 350°F)

and

Pressure ranges
from 0barabs to 700barabs
(0psiabs to 10kpsi)

with

accuracies better than 0,05%FS

For higher temperatures or pressure manual driven test equipment with an accuracy better 0,1%FS is available.

