

ENHANCED PRODUCTIVITY IN HARSH ENVIRONMENTS

Smart Process Line
TM50 PTFE or PTFE + Enamel

NEWS LETTER



SHED LIGHT ON YOUR HARSH PROCESS

Some processes don't accept compromises in material choice - our Smart Process Line gives you the flexibility

Harsh process environments demand very often a unique answer from a materials perspective. The TM50 Smart Process Line allows you the choice of different material combinations to enable the best fit to your process - a perfect basis for your spectroscopical process analytics.

Try something completely new!

The unique design of the TM50 Smart Process Line allows you to combine even so different materials like enamel coated stainless steel and PTFE. For some materials like different plastics (especially PTFE)

it is very complicated to build a flow through cell that is withstanding a solid mechanical integration into the pipe or temperature cycles in the running process. The Inlay-Design of the TM50 Smart Process Line flow through cells solves those problems in an intelligent way. The inlay as well as the wetted parts of optical fingers are made from the material of your choice. The integration ring made of 316 grade stainless steel can be delivered in different standard flange configurations for a variety of pipe diameters and process pressures. This allows the easy integration into your process and guarantees the performance you

need. The windows are by standard out of sapphire and the design allows a path length adjustment as well as the exchange of the fiber optical collimators during running process. The high precision in design and manufacturing enables the carefree use of the TM50 Smart Process Line with your chemometrical model in your spectroscopic process analytics.



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TM50 Smart Process Line - ruggedized flow through cell for spectroscopical transmission and transfection measurement in your process analytics.

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Standard Flanges (ANSI, DIN/EN and others):

Fast and reliable installation - different sizes and pressure ratings available



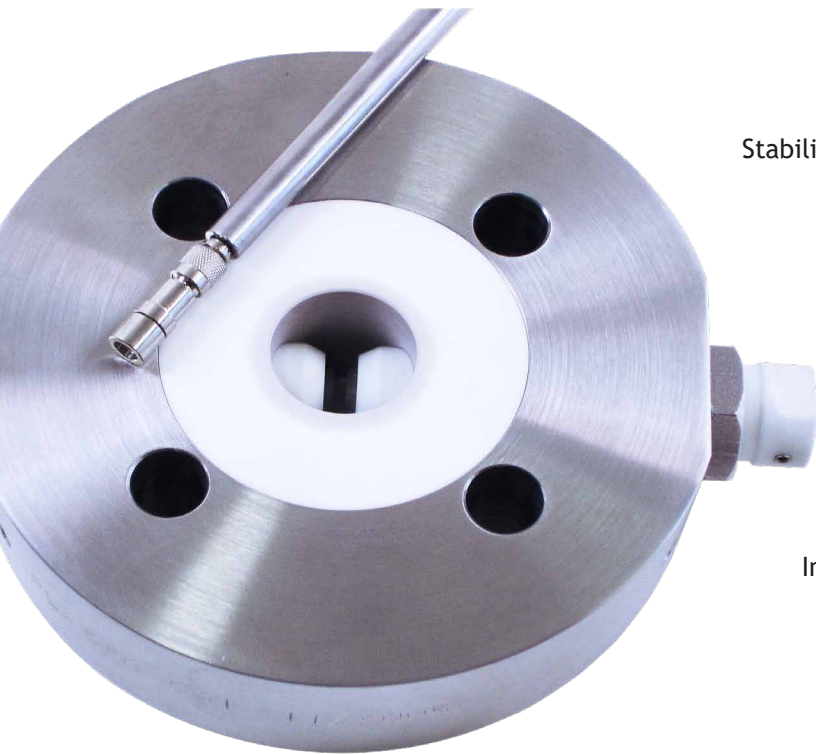
Superior Inlay Design:

Enamel, PTFE and similar mechanical sensitive but chemical ruggedized materials can be used



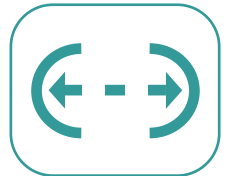
Sapphire windows:

Cover full pH range and can be used in aggressive/abrasive media



Precise Optical Path Length:

Stability of chemometrical models. Path can be adjusted during running process



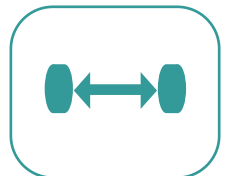
Collimator Optics:

Exchange during running process is easy



High Light Throughput:

Improved signal-to-noise ratio - a good basis for your chemometrical models



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PLS Prozess- Labor- und Sensortechnik GmbH
Mittelstraße 23
07745 Jena - Deutschland

Fon +49 3641 - 47 92 80
Fax +49 3641 - 47 92 81
Email info@pls-tec.com
www.pls-tec.com