

PSS Sensor Heads



As a manufacturer of high-quality optical measurement equipment, Polytec offers configurable modular spectrometer systems allowing optimized solutions for any individual application.

Polytec Spectrometer-Systems

- Sensor Heads
- Spectrometers
- Software

Adequate sample presentation is the key to successful system operation. To accommodate different sample properties and installation situations a variety of specialized sensor heads is available.

Polytec Spectrometer Systems are used for the efficient online control of

- Solids (e.g. bulk goods, powders, paper or textile webs)
- Fluids (e.g. liquids, suspensions, dispersions or paste-like media)
- Gases (e.g. aerosols or fumes)

Our measuring heads and probes are designed specifically for industrial applications and meet demanding requirements for resistance to dust, humidity, pressure and temperature.

They also comply with normative safety conditions and are suitable for use in the food industry or ex-protection zones.



Polytec GmbH
 Business Unit Analytics
 Tel. + 49 (0) 7243 604-1600
 Fax + 49 (0) 7243 69944
 analytics@polytec.de
 www.analytics-online.com

Distance Sensor Head PSS-H-A03

Reflection sensor head for measurements over large distances (conveyor belts, web applications, etc.)

Combined illumination and sensor unit for distances varying from 150 to 600 mm.

- Fully automated system calibration
- Adjustable measurement spot size
- Integrated 20 W tungsten-halogen light source for sample illumination
- SMA 905 optical fiber connection
- Industrial protection class IP64
- Stainless steel housing



Contact Sensor Head PSS-H-B01

Reflection sensor head for measurements over short distances or in direct contact with the sample (tubes, chutes, funnels, etc.)

Combined illumination and sensor unit for distances varying from 0 to 50 mm.

- Fully automated system calibration
- Adjustable measurement spot size
- Integrated 20 W tungsten-halogen light source for sample illumination
- SMA 905 optical fiber connection
- Industrial protection class IP64
- Stainless steel housing with sapphire window



Immersible Probes

For measurements in liquids and other fluid samples, Polytec's reflection immersible probe PSS-H-CR1 is the right choice. Optionally, the probes are available compliant to food laws or ATEX.

- Robust stainless steel design with sapphire window
- Special „9 around 1“ fiber configuration for superior S/N
- Compliant to food laws, ATEX
- Standardized system referencing
- Variable flanges for convenient installation



Fiber Sensor Heads

Fiber sensor heads are best suited for transmission measurements (e.g. gases) or passive measurements (e.g. hot steel or glass).

- Achromatic optics with AR coating
- Adjustable spot diameters and distances (i.e. variable d/D ratio)
- Suited for high environmental temperatures (<280°C)
- SMA 905 optical fiber connection
- Optionally as illumination head with integrated light source
- Optionally gas tight



Polytec GmbH (Germany)

Polytec-Platz 1-7
76337 Waldbronn
Tel. +49 7243 604-0
info@polytec.de

Polytec France S.A.S.

Bâtiment Orion – 1^{er} étage
39, rue Louveau
92320 Châtillon
Tel. +33 1 496569-00
info@polytec.fr

Polytec Ltd.

(Great Britain)
Lambda House, Batford Mill
Harpenden, Herts AL5 5BZ
Tel. +44 1582 711670
info@polytec-ltd.co.uk

Polytec Japan

Arena Tower, 13th floor
3-1-9, Shinyokohama
Kohoku-ku, Yokohama-shi
Kanagawa, 222-0033
Tel. +81 45 478-6980
info@polytec.co.jp

Polytec, Inc. (USA)

North American Headquarters
16400 Bake Parkway
Suites 150 & 200
Irvine, CA 92618
Tel. +1 949 943-3033
info@polytec.com

Central Office
1046 Baker Road
Dexter, MI 48130
Tel. +1 734 253-9428

East Coast Office
25 South Street, Suite A
Hopkinton, MA 01748
Tel. +1 508 417-1040

Polytec South-East Asia Pte Ltd
Blk 4010 Ang Mo Kio Ave 10
#06-06 TechPlace 1
Singapore 569626
Tel. +65 6451 0886
info@polytec-sea.com