

FPD-830

Reduced Diameter Transmission Probes



The FPD-830 Transmission Probe shares many of the characteristics of Hellma Analytics well-established FPT-850 on-line process probes with Axiom Technology, including the extreme robustness provided by the Company's proprietary welded window sealing technique. However, the FPD-830 also features reduced diameter and thus is tailored to providing optimum performance when used with the smaller reaction vessels often employed during chemical and process development and scale-up.

The reduced diameter of the FPD-830 is made possible by the use of

optical fibers within the probe in place of the larger lightguides used in the FPT Series. Although this approach does have some limitations, it is suitable for many development and pilot installations. In addition, chemometric calibrations developed with the FPD-830 can be usually be transferred to on-line process installations employing FPT-850 probes with little or no modification.

FPD-830 probes are impervious to attack by most aggressive chemical systems. This is made possible by the use of Grafoil[®] seals captured in an electron-beam welded 316L stainless steel structure.

For more information, or to discuss your specific application, please do not hesitate to call us or visit us on the web at www.hellma-axiom.com.

FEATURES:

- Visible through near-IR spectral response
- Reduced diameter for small scale reaction monitoring
- Withstands highly aggressive chemicals
- Suitable for use at elevated temperatures and pressures

FPD-830 SPECIFICATIONS:

Model Designation:	FPD-830-x
Spectral Range:	350 – 2200 nm
Body Diameter:	19 mm
Window Seal Type:	Grafoil [®] in welded structure
Maximum Temperature:	180°C
Fiber Connections:	SMA-905 female connectors

Optical Path lengths:	x = 2 (2mm), 5 (5 mm), or 10 (10 mm)
Window Material:	Sapphire
Immersion Length:	30 cm (standard)
Wetted Metals:	316L Stainless Steel (Hastelloy C-276 optional)
Maximum Pressure:	50 bar
Recommended Fiber-optic Core Diameter:	0.6 mm