art photonics

ATR Probes Overview

	PIR fiber 900/1000, 30cm shaft Hastelloy C22, 150cm total, LTP conduit with SMA 905 connectors		PIR fiber 900/1000, 15cm shaft PEEK, 150cm total, PEEK protective tubing, SMA-905 connectors	PIR fiber 900/1000, 30cm shaft Hastelloy C22, 150cm total, LTP conduit, SMA-905 connectors, air flow cooling		PIR fiber 900/1000, 30cm shaft, 150cm total, LTP conduit, SMA-905 connectors, detachable fiber	
Design	**Standard**		**PEEK Lab**	**High Temperature**		**Sterilizable**	
Shaft Ø / ATR crystal	**6,3mm**	**12mm**	**6,3mm**	**New! 6,3mm**	**12mm**	**6,3mm**	**12mm**
Diamond 600-1900cm^{-1}	200Bar, -150°C +140°C	200Bar, -150°C +140°C		200Bar, -150°C +250°C	200Bar, -150°C +250°C	200Bar, -150°C +140°C	200Bar, -150°C +140°C
Diamond Touch 600-1900cm^{-1} **New!**	200Bar, -150°C +140°C						
Si 600-3100cm^{-1}	100Bar, -150°C +140°C	100Bar, -150°C +140°C	10Bar, -100°C +140°C	100Bar, -150°C +250°C	100Bar, -150°C +250°C	100Bar, -150°C +140°C	100Bar, -150°C +140°C
Ge, 600-3100cm^{-1}	10Bar, -150°C +80°C	10Bar, -150°C +80°C	10Bar, -100°C +80°C			10Bar, -150°C +80°C	10Bar, -150°C +80°C
ZnSe, 600-3100cm^{-1}		10Bar, -150°C +140°C	10Bar, -100°C +140°C	10Bar, -150°C +250°C	10Bar, -150°C +250°C		
ZrO2 with CIR 500/550 fiber, 1550-9000cm^{-1}	100Bar, -150°C +90°C	100Bar, -150°C +90°C	10Bar, -100°C +90°C	100Bar, -150°C +200°C	100Bar, -150°C +200°C	100Bar, -150°C +90°C	100Bar, -150°C +90°C
ZrO2 with NIR silica 600/660 fiber, 400-2500 nm **New!**	100Bar, -150°C +150°C	100Bar, -150°C +150°C	10Bar, -100°C +90°C	100Bar, -150°C +250°C	100Bar, -150°C +250°C	100Bar, -150°C +150°C	100Bar, -150°C +150°C
PIR-Loop	PIR fiber 900/1000, 10cm shaft PEEK, 110cm total, PEEK tubing with SMA 905 connectors, 600-2500cm^{-1}, -50°C +90°C						
	CIR fiber 500/550, 10cm shaft PEEK, 110cm total, PEEK tubing with SMA 905 connectors, 1550-6500cm^{-1}, -50°C +90°C						

Chemical resistance of ATR crystals:
Diamond: stable in any liquid; check restriction for use of PEEK (sealing material) prior to operating.
Silizium: pH = -1÷10
Germanium: pH= 1÷14 without oxidizing agents in alkalies.
ZnSe: pH = 5÷9; note, that some complexing agents can damage the crystal.
ZrO2: any medium, check restriction for use of PEEK (sealing material) prior to operating.
Check the chemical compatibility of ATR crystals with medium if you have any doubts. We are always ready to answer your questions.

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