



Summary Table of ATR probes, produced by art photonics GmbH

Probe	Spectral Range, cm-1	ATR element description	Fiber	Probe Design****	Temp, C	Outer Pressure Limit **	Available Shaft Diameter	*** Shaft length, cm	Total Length, cm	Comments
D-ATR	600-1800	Diamond cone, 2 bounces reflection	PIR	Standard	-100+140C	200 Bar	6.3 , 12	10-100	100-330	Any medium, ask for limitation because of sealing material
				Shaft-in-Shaft	-100+140C	200 Bar	6.3 , 12	20-60		
				High Temperature	-100+250C	200 Bar	12	30-60		
Si-ATR	700-3500*	Silicon pyramid, 2 bounces reflection	PIR	Standard	-100+140C	200 Bar	6.3 , 12	10-100	100-330	pH = -1÷10, ask for limitation because of sealing material
				Shaft-in-Shaft	-100+140C	200 Bar	6.3 , 12	20-60		
				High Temperature	-100+250C	200 Bar	12	30-60		
ZrO-ATR	1500-7000	Zirconium dioxide pyramid, 2 or 3 bounces reflection	CIR	Standard	-50+90C	200 Bar	6.3 , 12	10-100	100-500	any medium, ask for limitation because of sealing material
				Shaft-in-Shaft	-50+90C	200 Bar	6.3 , 12	20-60		
				High Temperature	-50+180C	200 Bar	12	30-60		
ZnSe	600-3600*	Zinc Selenide cone, 2 bounces reflection	PIR	Standard	-100+140C	10 Bar	6.3 , 12	10-100	100-330	pH = 5÷9
				Detachable Tip		10 Bar	12	10-100		

* Spectral range is defined at 10% value of maximal transmission

** Outer Pressure Limit can be enhanced on request

*** Standard parameters are 30 cm long shaft, 150cm total length of the probe with 50cm legs

**** Description of available Probe designs is for standard lengths