

Enhanced Reaction Monitoring with DS Series Technology



Plug-n-Play

New, optimized and pre-aligned optics allow chemists to quickly connect and monitor chemistry in less than a minute. Pre-aligned optics remove the previous necessity of alignment and with the optimized optics the chemist is able to focus on the chemistry and not on equipment setup.



Quick-Connect

Transform any ReactIR™ system into a modern quick-connect style and enjoy easier, faster and more reliable setup. Real-time RTD (temperature sensor) technology incorporated with ReactIR™ spectral data gives chemists more valuable chemical information for improved qualitative, quantitative and even kinetic studies.



Efficient

Whether the instrument is shared with another chemist or monitoring two of your own reactions, the result is the same – double productivity with MultiplexIR. Benefit even further when combining MultiplexIR and the new EasyMax® automated lab reactor system – comprehensive and unparalleled reaction information from a single setup.



Flexible

The DS series applies to a wide range of probe technologies that directly meet ever changing chemistry requirements. Whether it's high pressure, low temperature, flow chemistry, gas phase, or low concentration applications, the DS series has been designed to meet the requirements of everyday chemistry.




DS AgX FiberConduit™ Technology

The DS Series is the fourth generation AgX FiberConduit™ Technology with a completely redesigned optical interface for easier connectivity from sampling technology to ReactIR™. No alignment is needed as the optics are pre-aligned for optimum performance. The DS AgX FiberConduit™ can connect to either a single- or double-channel interface (known as the MultiplexIR) effectively doubling productivity.


Technical data

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Part Number	Fiber Length			Sensor		Probe Length			Temperature Range	Pressure Limit
	1.0m	1.5m	2.0m	DiComp™	SiComp™	216mm	305mm	457mm		
DS Series 9.5mm AgX Fiber Conduit™	14430006	✓		✓			✓		-80 – 180°C	69bar
	14430007			✓	✓		✓		-80 – 180°C	69bar
	14430008			✓	✓			✓	-80 – 180°C	69bar
	14430009		✓			✓	✓		-80 – 180°C	69bar
	14430010			✓		✓	✓		-80 – 180°C	69bar
	14430011			✓		✓			-80 – 180°C	69bar
DS Series 6.3mm AgX Fiber Conduit™	14430000		✓		✓	✓			-80 – 180°C	69bar
	14430003		✓			✓	✓		-80 – 180°C	69bar

*Probe material construction is Alloy C-276 – alternate material available upon request; Sensor seal is gold - PTFE available as alternate



Part Number	Fiber Length			Sensor		Temperature Range	Pressure Limit
	1.0m	1.5m	2.0m	DiComp™	SiComp™		
DS Series Fiber-to-Sentinel™ (Fiber only – Sentinel™ purchased separately)	14430012	✓		✓	✓	-80 – 300°C	345bar
	14430013		✓	✓	✓	-80 – 300°C	345bar

*Temperature and pressure specifications dependent upon Sentinel™



Part Number	Fiber Length			Temperature Range	Pressure Limit
	1.0m	1.5m	2.0m		
DS Series Fiber-to-Gas Cell (Fiber only – Gas Cell purchased separately)	14430012	✓		Ambient – 120°C	7bar
	14430013		✓	Ambient – 120°C	7bar

*ZnSe windows are standard on the gas cell



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