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Part Number	Product Name	Quantity	Description	Status	Serial Number
<b>ATR PROBES for mid IR range</b>					
AP10106	ATR-DLC-10-7-110 (1.5-6.5µm)	1	<b>ATR for Detachable-PIR-Loops</b> Fiber Type: CIR 500/550 Tip Material: Detachable PIR-fiber loop Shaft Material: PEEK Shaft Size: OD = 10mm, length (incl. Loop) = 70mm -0/+5mm Flexible Fiber: 2 legs of 1.0m length each Total Length: shaft + fiber = 1.1±0,05m Termination: x 2 SMA-905 Protection: PEEK	used	547
AP11938	ATR-P-DF-6-30-150/50	1	<b>ATR-probe</b> Spectral Range: 5.2-17µm (600-1900cm <sup>-1</sup> ) Fiber Type: PIR 900/1000 Tip Material: Diamond IIIA, 2.5mm, flat tip Sealing Material: gold Shaft Material: Hastelloy C22 Shaft Size: OD = 6.3mm, length = 300±5mm Flexible Fiber: 0.7m length + 2 legs of 0.5m each Total Length: shaft + fiber = 1.50±0.05m Termination: x 2 Long TI-SMA Protection: Liquid Tight Protection (LTP) 200Bar; -150°C + 140°C		747
AP13005	ATR-DLP-P-10-7-200 (4-17µm)	1	<b>ATR-Probe for Detachable-PIR-Loops</b> Fiber Type: PIR 900/1000 Tip Material: Detachable PIR-fiber loop Shaft Material: PEEK Shaft Size: OD = 10mm, length = 70mm Flexible Fiber: 1.0m length split for 2 legs of 1.9m each Total Length: shaft + fiber = 2.0m Termination: x 2 Long TI-SMA Protection: PEEK OD=3.2mm		697
AP10100	ATR-DLP-10-7-110 (1.5-6.5µm)	3	<b>ATR for Detachable-PIR-Loops</b> Fiber Type: PIR 900/1000 Tip Material: Detachable PIR-fiber loop Shaft Material: PEEK Shaft Size: OD = 10mm, length (incl. Loop) = 70mm -0/+5mm Flexible Fiber: 2 legs of 1.0m length each Total Length: shaft + fiber = 1.1±0,05m Termination: x 2 SMA-905 Protection: PEEK		753, 754,545
AP10917	ATR-P-Ge-6-15-150-Lab	1	<b>ATR-probe for Laboratory</b> Probe Type: ATR-probe for Laboratory Spectral Range: 3.2-17µm (600-3100cm <sup>-1</sup> ) Fiber Type: PIR 900/1000 Tip Material: Germanium Sealing Material: PTFE o-ring Shaft Material: PEEK Shaft Size: OD = 6.3mm, length = 150±5mm Flexible Fiber: 2 legs of 1.30m length each Total Length: shaft + fiber =1.50±0,05m Termination: x 2 TI-SMA Protection: PEEK tubing 10Bar; -100°C/+80°C		652
AP12698	ATR-P-D-6-30-150-Lab	1	<b>ATR-probe for Laboratory</b> Spectral Range: 600-1900cm <sup>-1</sup> Fiber Type: PIR900/1000 Tip Material: Diamond IIA, 3mm cone Sealing: PTFE o-ring Shaft Material: PEEK Shaft Size: OD = 6.3mm, length = 300±5mm Flexible Fiber: 2 legs 1,15m length Total Length: shaft + fiber =1.5±0,05m Termination: 2 x SMA Protection: PEEK tubing, OD=3,2mm 10Bar; -100°C/+140°C		677
AP10429	ATR-P-D-12-30-150/20	1	<b>ATR-probe</b> Spectral Range: 5.2-17µm (600-1900cm <sup>-1</sup> ) Fiber Type: PIR 900/1000 Tip Material: Diamond IIIA, 2.5mm Sealing Material: PEEK Shaft Material: Hastelloy C22 Shaft Size: OD = 12mm, length = 300±5mm Flexible Fiber: 0.7m length + 2 legs of 0.2m each Total Length: shaft + fiber = 1.50±0.05m Termination: x 2 Long TI-SMA Protection: Liquid Tight Protection (LTP) 200Bar; -150°C + 140°C		735
AP12114	ATR-P-D-6-30-200/50-HT	1	<b>ATR-probe with gas cooling design for HighTemperature applications &lt; 250°C</b> Spectral Range: 5.2-17µm (600-1900cm <sup>-1</sup> ) Fiber Type: PIR 900/1000 Tip Material: Diamond IIIA, 2.5mm cone Sealing Material: PEEK Shaft Material: Hastelloy C22 Shaft Size: OD = 6.3mm, length = 300±5mm Flexible Fiber: 1.2m length + 2 legs of 0.5m each Total Length: shaft + fiber = 2.0±0.05m Termination: x 2 Long TI-SMA Protection: Liquid Tight Protection (LTP) Silicone coated protective metal conduit with thermo-couple fixed at distal end inside shaft for fiber temperature control and with inlets for in-/out gas/air flow Digital Voltmeter included 200Bar; -150°C/+250°C		511

Part Number	Product Name	Quantity	Description	Status	Serial Number
<b>MID-INFRARED REFLECTION PROBES</b>					
AP11789	Reflection Probe CIR(55+34)- 6.3-10-150-SS60	1	<b>Y-split Reflection-Probe Assembly (1+7)</b> Spectral Range: 6500-1600cm-1 Fibre Type: 1 x CIR, core/clad 500/550µm NA=0.30±0.03 Fibre Type: 7 x CIR, core/clad 340/400 ±10µm clad 400±15µm double polymer coating 510±30µm, NA=0.30±0.03 Probe Schaft Material: stainless steel Schaft Size: OD = 6.3mm, length = 100mm Fibre Length: 0.925 m length + 2 legs of 0.5m each Total Length: 1.5m Termination: 2x SMA 905 connectors Protection: stainless steel tubing, OD=6mm		3AIZ
AP12688	Reflection Probe 2xZFG44 6-7-150-SS60	1	<b>Reflection-Probe Assembly (1+1) Y-split</b> Spectral Range: 10000-2600cm-1 Fiber Type: 2x ZFG400/460, Zirconium Fluoride glass fiber, core 400±10µm clad 460±15µm double polymer coating 560±30µm, NA=0.20±0.03 Probe Body Material: Stainless steel Probe Size: OD = 6,35mm (1/4 ", length = 75mm) Fiber Length: 0.925 m length + 2 legs of 0.5m each Total Length: body + fiber = 1.5m Termination: 2x SMA 905 connectors Protection: stainless steel tubing, OD 7.0mm		3BXV
<b>NIR and UV Probes</b>					
AP12279	TF-NIR 12-20-200/50 Hastelloy	1	<b>Transflection probe</b> Spectral range: 400-2200nm Fiber type: 2xNIR600/660PI, NA=0.22±0.02 Optical path: variable 0.5-10mm (slit 0.25-5mm) Wet materials: Sapphire, PTFE, Stainless steel 316L Probe shaft: Hastelloy C22, OD=12mm, L=200±5mm Total length: 2±0.05m; Leg length: 0.5±0.05m Termination: 2 x SMA905 Protection: metal sleeve PVC coated, OD 11.6mm Temperature range -50°C+200°C Pressure range 0-50 Bar		3HDY
AP12406	TF-NIR-S-12-20-200/50-SS	1	<b>Transflection probe</b> Spectral range: 400-2200nm Fiber type: 2xNIR600/660PI, NA=0.22±0.02 Optical path: variable 0.5-10mm (slit 0.25-5mm) Wet materials: Sapphire, PTFE, Stainless steel 316L Probe shaft: Hastelloy C22, OD=12mm, L=200±5mm Total length: 2±0.05m; Leg length: 0.5±0.05m Termination: 2 x SMA905 Protection: metal sleeve PVC coated, OD 11.6mm Temperature range -50°C+200°C Pressure range 0-50 Bar		2XVR
AP12746	Transmission Probe VIS-NIR 25-20-200/50 Stein Steel 2mm+prism	1	<b>Transmission Probe</b> Spectral range: 400-2200nm Fiber type: 2xNIR600/660PI, NA=0.20±0.02 Optical path: fixed 2mm slit Optics: right angle prism Wet materials: Sapphire, PTFE, Stainless steel 316L Probe shaft: Stainless steel, OD=25mm, L=300±5mm Total length: 2±0.05m; Leg length: 0.5±0.05m Termination: 2xSMA905 Protection: metal sleeve PVC coated, OD 11.6mm Temperature range -50°C+200°C Pressure range 0-50 Bar		Demo Unit
AP12497	ATR-UV-Al2O3-6-15-150-Lab	1	<b>ATR-probe for Laboratory</b> Spectral range: 260-1200nm Fiber type: 2 x UV600/660 silica, NA=0.22±0.02 ATR crystal: Sapphire , 3 bounces Sealing Material: PTFE o-ring Shaft Material: PEEK Shaft Size: OD = 6.3mm, length = 150±5mm Flexible Fiber: 2 legs of 1.35m length each Total Length: shaft + fiber =1.50±0.05m Termination: x 2 SMA Protection: PEEK tubing		764
AP11679	ATR-S-ZrO2-6-15-150-Lab	1	<b>ATR-probe for Laboratory</b> Spectral Range: 0.4-2.2µm (400-2200nm) Fiber Type: NIR 600/660 Tip Material: Cubic Zirconia Sealing Material: FKM or PTFE o-ring Shaft Material: PEEK Shaft Size: OD = 6.3mm, length = 150±5mm Flexible Fiber: 1.30m length (2 legs of 1.3m each) Total Length: shaft + fiber =1.50±0,05m Termination: x 2 Long TI-SMA Protection: PEEK tubing		763

Part Number	Product Name	Quantity	Description	Status	Serial Number
<b>NIR and UV Probes</b>					
AP12034	Fluorescence-Probe 1xUV300/330AL+7xUV200/220P-200-2xSMA	1	<b>Fluorescence Fiber Optic Probe</b> Fibers: all silica 1xUV300/330/440 Aluminium coated + 7xUV200/220/245 Polyimide coated NA=0.22±0.02 Probe length: 2.0±0.05m; Common part: 1.5m; Probe legs: 0.5m Distal end: shaft from Stainless Steel, OD 1,4mm, L=100±2mm Proximal ends: 2 legs terminated by SMA connectors Protective tubings: Simplex, OD 3mm		3GRF
AP12707	Reflection Probe 6-20-500/50-(7+7)xNIR600	1	<b>Reflection Probe</b> Bundle arrangement: 7+7 Fibers: NIR silica (Low OH), core/clad = 600/660µm, NA=0.22±0.02 Window material: Sapphire Sealing material: Glue EPOTEK ND 353 Probe Shaft Material: Stainless Steel 1.4404/316L Probe Shaft size: OD=6mm, L=200mm Total length = 5±0.1m Legs length = 0.5±0.05m Termination: SMA 905 connectors Protection tubing: KSP-4N, AD 7mm Working Pressure up to 10 Bar Working Temperature: 150 C		3CBM
AP12488	Reflection Probe R-NIR-5-6-15-200/50-FT	1	<b>Reflection Probe</b> Bundle arrangement: 3+4 Fibers: NIR silica/silica (Low OH), core/clad = 600/660µm, NA=0.22 Probe Shaft: Stainless Steel 1.4404/316L, OD=6mm, L=150mm Window material: Sapphire Sealing material: Glue EPOTEK ND 353 Protection tubing: KSP-4N, AD 7mm Total length = 2m +/-0.1m Legs length = 0.5+/-0.05m Terminations: 2x SMA 905 connectors Working Pressure: up to 10 Bar Working Temperature: 150 C	used	2YQL
AP10773	Reflection Probe 1xNIR400/400AL+7xNIR400/440P-200-2xSMA	1	<b>Reflection Probe</b> Bundle shape: 1 + 7 all silica fibers, low OH, NA=0.22 Wavelength range: for 380-2200nm Detection Fiber: 1x NIR400/440AL, all silica core 400µm, clad 440µm, low OH, NA=0.22 Illumination Fibers: 7x NIR400/440P, all silica core 400 µm, clad 440 µm, low OH, NA=0.22 Probe Body: stainless steel tube OD = 3.5mm; L = 150mm Total length = 2,0±0,10m Legs length = 0,3±0,05m Leg Terminations: 2 x SMA 905 connector Protective tubing: silicone coated stainless steel, fiber reinforced, OD 5.3mm		3GRU
AP12490	Reflection Probe 6-15-200/50- (6+1)xNIR400	2	<b>Reflection Probe</b> Spectral range: 380 - 2500 nm Bundle arrangement: 6+1 Fibers: NIR silica/silica (Low OH), core/clad = 400/440µm, NA=0.22 Window material: Sapphire Sealing material: Glue EPOTEK ND 353 Probe Shaft Material: Stainless Steel 1.4404/316L Probe Shaft size: OD=6mm, L=150mm Total length = 2m +/-0.1m Terminations: 2x SMA 905 connectors Protection tubing: KSP-4N, OD 7mm Working Pressure: up to 10 Bar Working Temperature: 150°C		3HFD, 3FUF
<b>RAMAN PROBE</b>					
AP12980	Raman RSP-DoS-6.3-10-200/50-FS HAST (Version AP-51.049.A9)	1	<b>Raman probe</b> Laser Wavelengths: 785nm Laser Spot: ~0.2mm at the tip Spectral Range Cut-Off: 800nm (300cm-1 @ 785nm Laser) Filter Efficiency: OD>6 for Laser rejection Fiber Type: Laser - NIR105/125 NA=0.22; Detector - NIR200/220 NA=0.22 Window Material: Sapphire (C-plane) Window Sealing Material: PTFE (Teflon) Shaft Material: Hastelloy C22 Shaft Sealing Material: welded Shaft Size: OD = 6.3mm, length = 100±5mm Flexible Fiber: 1.5m length for common cable + 2 legs of 0.5m each Total Length: shaft + fiber = 2.2±0.05m Termination: Laser - FC/PC; Detector - SMA Protection: Liquid Tight Protection (LTP)		3IBE