

Technical Specifications

Parameter	IRmadillo with Integrated Controller		
Model number(s)	ASM0627-10-Z-Cx-Ex-Gx-D3x		
Spectral range	Mid-infrared (648 to 1800 cm ⁻¹ and 2700 to 3800 cm ⁻¹)		
Sampling material environment	Liquids and slurries		
Sample interface	ATR Insertion probe		
Wetted materials	ATR:DiamondProbe:Hastelloy C276Sealing O-rings:FFKM (options available upon request)		
Body casing material	Cast aluminium – epoxy painted		
Process conditions	Temperature (analyte): Pressure (analyte): pH range:	-0.999 to 41	220°C (-4°F to +428°F) 1.37 barg (pressure rating may be affected ical interface)
Operating environment	Temperature (ambient) Temperature (ambient) Humidity (ambient):		-10°C to +55°C (+14°F to +131°F) -20°C to +45°C (-4°F to +113°F) 0 to 95% RH
Enclosure rating	IP65		
Long-term stability	Fixed interior compone	ents ensure h	igh stability and vibration tolerance
Sensitivity	LoD 100 ppm (typical)		
Minimum acquisition time	10 s		
Dimensions	Body (H x W x D): Probe maximum insert Probe diameter:	able length:	200 x 281 x 310 mm (approx. 8 x 11 x 12 in) 212 mm (approx. 8.3 in) 38 mm (approx. 1.5 in)
Weight	Approx. 18.5 kg (41 lb)		
Fibre-optic coupling to probe	None. Instrument's fixed probe is inserted directly into vessel or pipework		
Power & input requirements	Power: Purge gas:	100-240 Vac, 50/60 Hz, 110 W max Zero / instrument grade air or N ₂ (minimum quality according to ISO8573-1:2010 of Class 1:2:1 or better)	
Cleaning system compatibility	Clean in place (CIP): Sterilise in place (SIP):	Yes Yes	
Data output	OPC-UA (over Ethernet) Modbus TCP (over Ethernet) Export as text file Compatible with all major analysis packages Two flying ethernet cables		
Software operating system	Windows 10 IoT Enterprise LTSC		
CE mark / EEA certification	(€		
Patents	Keit's IRmadillo FTIR sp	pectrometer	is the subject of patents and patent

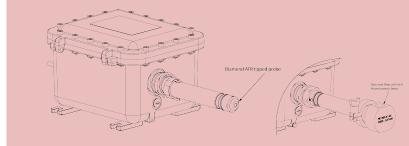
Keit's IRmadillo FTIR spectrometer is the subject of patents and paten applications, details of which may be found at: www.keit.co.uk/legal

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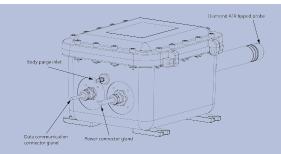
Front view & optional flow cell

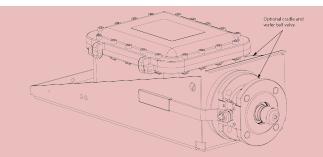
IRmadillo's durable exterior casing with fixed insertion probe suited for real-time process analysis.

Optional flow cell secured to the probe tip enables by-pass flow measurements.

Back view

Power and data ports visible. Highly vibrationtolerant design results in a uniquely tough, compact process analyser.





Installation option - port tube, valve, and cradle

Port tube with optional cradle and wafer ball valve for ease of insertion and removal to assist in cleaning and maintenance.



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