## **Technical Specifications**

Parameter	IRmadilloEx		IRmadilloNA
Model number(s)	ASM0627-09-E-Cx-O-Gx-D3x		ASM0627-09-N-Cx-O-Gx-D3x
Hazardous environment certifications	Ex bill 1/2 G Ex db IIB+H2 T4 Ga/Gb IECEx CML 22.0082X CML 22ATEX1522X CML 22UKEX1523X		Class I, Zone O/1, AEx db IIB+H2 T4 Ga/Gb Ex db IIB+H2 T4 Ga/Gb Class I, Division 2, Groups B, C, D, T4
Spectral range	Mid-infrared (648 to 1800 cm <sup>-1</sup> and 2700 to 3800 cm <sup>-1</sup> )		
Sampling material environment	Liquids and slurries		
Sample interface	ATR Insertion probe		
Wetted materials	ATR:	Diamond	
	Probe: Hastelloy C276		76
	Sealing O-rings:	Sealing O-rings: FFKM	
Body casing material	Cast aluminium - epoxy painted		
Process conditions	Temperature (analyte):	-20°C to +22	0°C (-4°F to +428°F)
	Pressure (analyte):	-0.999 to 41.3 mechanical in	37 barg (pressure rating may be affected by nterface)
	pH range: 0 to 14		
Operating environment	Temperature (ambient) option 1:		-10°C to +55°C (+14°F to +131°F)
	Temperature (ambient) option 2:		-20°C to +45°C (-4°F to +113°F)
	Humidity (ambient): 0 to 95% RH		
Enclosure rating	IP65		
Long-term stability	Fixed interior components ensure high stability and vibration tolerance		
Sensitivity	LoD 100 ppm (typical)		
Minimum acquisition time	10 s		
Dimensions	Body (H x W x D):		200 x 281 x 310 mm (approx. 8 x 11 x 12 in)
			195 mm (approx. 7.7 in)
	Probe max. insertion (with	ı flange):	181 mm (approx. 7.1 in)
	Probe diameter:		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:	100-240 Vac, 50/60 Hz, 110 W max	
			ment grade air or N <sub>2</sub> (minimum quality
	according to ISO8573-1:2010 of Class 1:2:1 or better)		
Data output	OPC-UA (over Ethernet)		
	Modbus RTU (over RS-485)		
	Modbus TCP (over Ethernet)		
	Export as text file		
	Compatible with all major analysis packages		
Cofficient	Communications grade fibre-optic cable to external controller  Windows 10 IoT Enterprise LTSC		
Software operating system	·		
Max length fibre-optic lead to	275 m (Type OM1, 62.5/125 μm)		



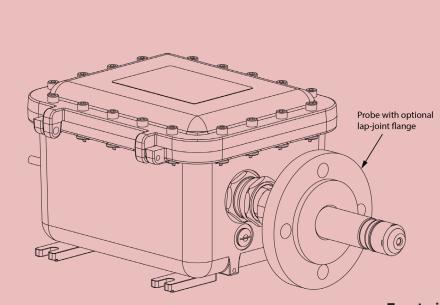
controller

Patents

Keit's IRmadillo FTIR spectrometer is the subject of patents and patent

applications, details of which may be found at: www.keit.co.uk/legal

Optional OM1 extension



## Front view

Durable exterior casing with fixed insertion probe suited for real-time process analysis.

