POWER SUPPLY	
Battery type	Rechargeable Nickel Metal Hydride battery pack containing six 4AH cells (not user replaceable)
Battery life	Typical use 10 hours from fully charged
Battery lifetime	Up to 1000 charge/discharge cycles
Battery charger	Separate intelligent 2A battery charger powered from mains supply (100-240V 47-63Hz)
Charge time	Approximately 2 hours from complete discharge
Alternative power	Can be powered externally for fixed in place applications. Contact Geotechnical Instruments (UK) Ltd for further information
Memory backup battery	Lithium Manganese for data retention.

GAS RANGES					
Gases measured	CO2 and CH4	By dual wavelength infrared cell with reference channel			
	O2	By internal electrochemical cell			
	CO (hydrogen	By internal electrochemical cell			
	compensated)				
	H2S 0-500ppm	By internal electrochemical cell			
	H2S 0-5000ppm	By external gas pod (option)			
	NH3 0-1000ppm	By internal electrochemical cell (non standard option)			
	H2 0-1000ppm	By internal electrochemical cell (non standard option)			
	A full range of gas pods can be used as well as the two internal cell positions.				
Range	CH4	0 -70% to specification, 0-100% reading			
	CO2	0 -60% to specification, 0-100% reading			
	02	0 -25%			
	CO	0 -2000ppm			
	H2S		0 -500ppm internal or 0 -5000ppm external pod		
Typical accuracy	Gas	0-5% vol	5-15% vol	15%-FS	FS
	CH4	±0.5% (vol)	±1.0% (vol)	±3.0% (vol)	70%
	CO2	±0.5% (vol)	±1.0% (vol)	±3.0% (vol)	60%
	O2	±1.0% (vol)	±1.0% (vol)	±1.0% (vol)	25%
	Gas	Range	Range 0-FS		
	СО	0 -2000ppm	the branch of th		
	H2S	0 -500ppm	±10.0% FS		
Response time, T90	CH4	≤20 seconds	•		
	CO2	≤20 seconds			
	O2	≤20 seconds			
	CO	≤60 seconds			
	H2S	≤60 seconds			
CO measurement	Compensated for interference from hydrogen up to 1% hydrogen. Cross sensitivity approx 1%.				
Oxygen cell lifetime	Approximately 3 years in air				
Other Electrochemical cells lifetime	Approximately 2 years in air				

Temperature measurement	-10°C to +75 °C with optional probe			
Temperature accuracy	±1.0 °C with optional probe			
Flow from borehole	0 – 20 L/Hr internal measurement			
Flow from borehole accuracy	± 0.3 L/hr			
Visual and audible alarm	User selectable CO2, CH4 and O2 alarm levels *			
Communications	Via USB lead to 7 pin Lemo connector*			
Relative pressure	±500 mbar from calibration pressure			
Relative pressure accuracy	±4mbar typically (should be zeroed before reading) to ±15mbar max			
Available Memory	1000 IDs* 2000 Readings 1000 Events*			
PUMP				
Flow	350 to 400 ml/min typical flow rate in free air			
Flow fail point	50ml/min approximately – user settable *			
ENVIRONMENTAL CONDITIONS				
Operating temperature range	0°C – 40 °C			
Relative humidity	0 – 95% non condensing			
Case seal	IP65			
Barometric pressure	± 200mbar from calibration pressure			
Barometric pressure accuracy	± 5mbar typically			
PHYSICAL				
Weight	2 Kilograms			
Size	L 63mm, W 190mm, D 252mm			
Case material	ABS			
Keys	Membrane panel			
Display	Liquid crystal display, 40 x 16 characters Fibre optic woven back-light for low light conditions			
Gas sample filters	User replaceable integral fibre filter at inlet port and an external PTFE water trap filter			
CERTIFICATION RATING				
ATEX	II 2G EEx ib d IIA T1 (Ta = 0°C to +40°C)			
MCerts	Sira MC 080126/00			

^{*} Gas Analyser Manager software required.

FACILITIES