Technologies

Technologies	Detect	Ident.	GAS	LIQ.	SOLID	False alarms	TRACES	No sample prep.	Response time	Cost
Active FT-IR	✓	✓	✓	✓	✓	Medium			<2 min	Med.
Passive FT-IR	✓	✓	✓			Medium		✓	secs	High
IMS	✓	✓	✓			High	✓	✓	<1 min	Med
Raman	✓	✓		✓	✓	Medium		✓	<1 min	Med
PID – (Photo Ionization)	✓		✓			Low	✓	✓	secs	Med
FID – (Flame Ionization)	✓					Medium	✓	✓	secs	Low
MS	✓	✓	✓	✓	✓	Low	✓		secs	High
GC/MS	✓	✓	✓	✓	✓	Low	✓		>20 mins	High
Colorimetric tubes	✓	✓	✓			Low			5-10 mins	Low
Wet chemistry	✓	✓		✓	✓	Low			5-10 mins	Low
Indicator paper (PH, etc.)	✓					Low			mins	Low
Flammable gas detectors (LEL)		✓	✓			Low		✓	secs	Low

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Main competition

	Serstech 100 Indicator	Smiths Detection ACE-ID (OEM)	Thermo Scientific Tru-Narc First defender (Gemini)	Rigaku ResQ	Metrohm Mira	BW-Tec* TacticID	Cobalt** Resolve
Pricing	Low	Medium	Medium/High	High	Medium/Low	Medium	Very high
Quality and performance	High	Low	High	High	Medium	Medium	Very high
Size and weight	Small	Small	Medium	Large	Small	Medium	Big and heavy
Brand awareness	Medium	Very high	Very high	High	Medium/high	Medium/High	Medium
Market presence	Medium	Medium	Large Benchmark	Medium	Large	Medium	Medium

* BW Tec was acquired by Metrohm in 2018
** Cobalt was acquired by Agilent in 2018

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