

■ F-900 Comparison Chart

	Felix Instruments	E.M.S. B.V	Absoger	SensorSense	Interscan	
Specification	F-900 Portable Ethylene Analyzer	MACView®-Ethylene Postharvest Analyser	EASI-1	ETD-300	Portable Ethylene Analyzer (4000) 0-19.9 ppm range	Portable Ethylene Analyzer (4000) 0-199.9 ppm range
Sensor type	Electrochemical	Electrochemical (nanogold)	Electro-catalytic	Photo acoustic	Electrochemical	Electrochemical
Air sampling rate	200 ml/min	180-7200 seconds per cell		0.25-5 L/h	Less than 1 second	Less than 1 second
Range	0-2 ppm + 0-200 ppm included	0-5000 ppb or 0-500 ppm	0.01 ppm - 100 ppm; 0.1 ppm - 400 ppm	0-5 ppm	0-19.9 ppm	0-199.9 ppm
Resolution	0.001 ppm	1 ppb (0-5000 ppb) or 0.1 ppm (0-500 ppm)	Not listed		0.01 ppm	0.1 ppm
Accuracy	±5% of measured value	±0.3%	±5%	<1% of value or 0.3 ppbv	±2.0% of reading, ±1 LSD	±2.0% of reading, ±1 least significant digit. (Limited to accuracy of calibration standard)
Lower detection limit	0.04 ppm (40 ppb)	Not listed	0.01 ppm (10 ppb)	0.3 ppb	0.19 ppm	1.9 ppm
Display	Sunlight visible transfective graphic LCD	Graphic with backlight		Blue backlight LCD	LCD	LCD

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Operating environment	0-45 °C (0-90% humidity, non-condensing)	-10-50°C (5-99% humidity, non-condensing)		10-28°C (0-95% humidity, non-condensing)		
Battery capacity	4 hours, rechargeable Li-Ion	Rechargeable Li-Ion	Rechargeable	None: Power input 990-264 VAC, 47-63 Hz	"C" size alkaline batteries; 4 weeks	"C" size alkaline batteries; 4 weeks
Weight	2.43 kg	10 kg			2 kg	2 kg
Dimensions	183.5 x 111 x 120 mm	431 x 132 x 723 mm		500 x500 x140 mm	178 x 102 x 225 mm	178 x 102 x 225 mm
Warm-up time	<5 min			30 min		
Data collection	SD card, USB, digital and analogue output from terminal block	Internal database memory	USB	USB and RS232	1/4" phone jack for analog recorder output connection. Typically 0-100mV	1/4" phone jack for analog recorder output connection. Typically 0-100mV
Optional additional sensors	CO ₂ 0-2000 ppm, CO ₂ 0-20% and O ₂ 0-100%	None	CO ₂ percent, O ₂	None	None	None