Pranalytica, Inc.
1101 Colorado Avenue
Santa Monica, CA 90401-3009
Tel: (310) 458-3345; Fax: (310) 458-0171

Specifications for Chemilux™- BD (1,3-Butadiene) Analyzers

Sensitivity	Chemilux-BD: 100 ppb (parts per billion)
Measurement time	45 seconds
Sensitivity scales	Automatic and manual scale switching Chemilux-BD: 10 ppm FS to 200 ppm FS
Selectivity (freedom from interferences)	No interference from other hydrocarbons; no interference from nitrogen oxides, ammonia, hydrogen sulfide, sulfur dioxide, carbon monoxide and/or carbon dioxide
Response linearity	Better than 0.995% over the quoted operating range, stable for six months following factory calibration
Response time	Less than 1 measurement cycle (45 seconds)
Zero offset	Less than 1 ppm
Zero drift	Less than 1 ppm for six months following factory calibration
Operation	Continuous; needs no periodic maintenance
Output signals	Analog 0-5 V FS (optional at extra cost) Analog 4-20 mA FS (optional at extra cost)
Control system	Self-contained microprocessor
Data storage	On board (capacity to hold continuous data for 1 year)
Gas flow	400 scc/m
Gas handling	Direct measurement of 1,3-Butadiene in the gas sample; no preconcentration necessary
Gas inlet temperature	0 to 30 °C (wider range available; optional at extra cost)
Vacuum pump	Internal for continuous gas draw
Physical	Rack Mount: 19”W X 24” D X 10” H Weight: 75 lbs.
Power consumption	200W at 110 V, 60Hz AC
Networking	Internet ready; Can transfer data to a central site
Operating environment	10 to 30 °C; 0 – 95% RH (non-condensing); requires no special cooling.
Storage environment	-40 to 60 °C; 0 – 95% RH (non-condensing)
Special gas needs	None
Routine calibration	Not required at the quoted sensitivity; recommended recalibration every six months (recalibration service included in optional yearly service contract)
Warranty	90 days parts & labor; 1 year parts only