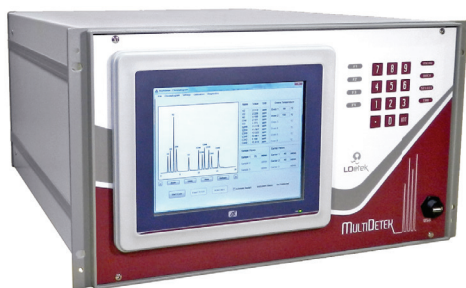


## MULTIDETEK SERIES

- ppt/ppb/ppm/% compact GC for gas analysis
- Up to 6 isothermal or programmable mini ovens for packed, micro packed, fused silica, MXT (PLOT) columns.
- Heated valve box with heated transfer lines to avoid cold points.
- Multiple detectors in the same instrument PED2, PED-E, HID, TCD, FID.
- Inline EPC offering no carrier gas contamination and low carrier gas consumption system.
- Integrated fully configured purged sampling system for toxic and aggressive gases.
- Fast parallel chromatography system.
- Built-in PC with complete software interface and remote control capability.
- Fully equipped for industrial and laboratory environments.



[see MultiDetek2 chart for gas analysis capabilities]

## LD8000 SERIES

- ppb/ppm N<sub>2</sub> in Ar - He - Ne - crude argon - multigas
- Built-in multi-stream selector system.
- Integrated zero calibration gas generator system.



## LDP1000 SERIES

- Intelligent heated gas purifiers for noble gases, hydrogen and nitrogen.
- Extended lifetime and easy replaceable getters.



## PLASMADETEK SERIES

[2 patents pending]

- ppb/ppm/% stand alone PED for gas analysis.
- Enhanced selectivity and sensitivity.
- Configured for use with helium, argon, nitrogen and hydrogen as carrier gas.



## LDGSS SERIES

- Stream selector system for vacuum up to high pressure gas lines.
- Options available for corrosive and toxic gases.
- Leak proof, no stream contamination, no outboard leakage, no cross contamination.
- Can be connected to the MD series for remote control switching and sequence programming.
- Double block and bleed version available.



## LD2000 SERIES

- ppb/ppm THC in air - O<sub>2</sub> - N<sub>2</sub> - CO - CO<sub>2</sub> - H<sub>2</sub> - He - Ar - Ne - Kr - Xe
- Electronic flow controllers for air, fuel and sample.
- Safety fuel shutoff valve.



Where innovation leads to success

# MultiDetek2 chart V1

Backgrounds →		Air	Ar	He	Ne	Kr	Xe	H <sub>2</sub>	O <sub>2</sub>	N <sub>2</sub>	CH <sub>4</sub>	CO	CO <sub>2</sub>	N <sub>2</sub> O	C <sub>2</sub> H <sub>4</sub>	C <sub>3</sub> H <sub>6</sub>	NH <sub>3</sub>	CF <sub>4</sub>	C <sub>2</sub> F <sub>6</sub>	SF <sub>6</sub>	NF <sub>3</sub>	C <sub>4</sub> F <sub>8</sub>	C <sub>3</sub> F <sub>8</sub>	C <sub>3</sub> F <sub>7</sub>	C <sub>2</sub> F <sub>5</sub>	SiH <sub>4</sub>	HCl	Cl <sub>2</sub>	WF <sub>6</sub>	SiF <sub>4</sub>	Syngas	← Back		
<b>Gas types</b>	<b>Impurities</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>Impurities</b>
↓	↓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	↓	
noble	Ar (argon)	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Ar	
noble	He (helium)	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	He	
noble	Ne (neon)	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Ne	
noble	Kr (krypton)	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Kr		
noble	Xe (xenon)	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Xe	
permanent	H <sub>2</sub> (hydrogen)	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	H <sub>2</sub>	
permanent	O <sub>2</sub> (oxygen)	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O <sub>2</sub>	
permanent	N <sub>2</sub> (nitrogen)	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N <sub>2</sub>	
permanent	CO (carbon monoxide)	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	CO	
permanent	CO <sub>2</sub> (carbon dioxide)	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	CO <sub>2</sub>	
permanent	H <sub>2</sub> O (moisture)	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	X	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	H <sub>2</sub> O	
fluorocarbon	CF <sub>4</sub> (tetrafluoromethane)	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	CF <sub>4</sub>	
fluorocarbon	C <sub>2</sub> F <sub>6</sub> (hexafluoroethane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	X	-	-	-	-	-	-	-	C <sub>2</sub> F <sub>6</sub>	
greenhouse	SF <sub>6</sub> (sulfur hexafluoride)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	SF <sub>6</sub>	
greenhouse	N <sub>2</sub> O (nitrous oxide)	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N <sub>2</sub> O	
inorganic	NF <sub>3</sub> (nitrogen trifluoride)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	X	X	X	X	X	X	X	X	X	X	-	NF <sub>3</sub>	
inorganic/toxic	NH <sub>3</sub> (ammonia)	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	X	-	-	X	-	-	X	-	-	-	-	-	-	-	-	X	NH <sub>3</sub>	
inorganic/toxic	PH <sub>3</sub> (phosphine)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	PH <sub>3</sub>	
inorganic/toxic	AsH <sub>3</sub> (arsine)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	AsH <sub>3</sub>	
toxic	CH <sub>2</sub> O (formaldehyde)	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	X	-	-	X	-	-	-	-	-	-	-	-	-	-	-	CH <sub>2</sub> O	
toxic	C <sub>2</sub> H <sub>4</sub> O (acetaldehyde)	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	X	-	-	X	-	-	-	-	-	-	-	-	-	-	-	C <sub>2</sub> H <sub>4</sub> O	
hydrocarbon	CH <sub>4</sub> (methane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	CH <sub>4</sub>	
hydrocarbon	NMHC (non methane hydrocarbon)	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	NMHC	
hydrocarbon	C <sub>2</sub> H <sub>2</sub> (acetylene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>2</sub> H <sub>2</sub>	
hydrocarbon	C <sub>2</sub> H <sub>4</sub> (ethylene)	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>2</sub> H <sub>4</sub>	
hydrocarbon	C <sub>2</sub> H <sub>6</sub> (ethane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>2</sub> H <sub>6</sub>	
hydrocarbon	C <sub>3</sub> H <sub>6</sub> (propylene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>3</sub> H <sub>6</sub>	
hydrocarbon	C <sub>3</sub> H <sub>8</sub> (propane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>3</sub> H <sub>8</sub>	
hydrocarbon	C <sub>3</sub> H <sub>4</sub> (propadiene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>3</sub> H <sub>4</sub>	
hydrocarbon	C <sub>3</sub> H <sub>4</sub> (propyne)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>3</sub> H <sub>4</sub>	
hydrocarbon	C <sub>4</sub> H <sub>6</sub> (1,3 butadiene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>4</sub> H <sub>6</sub>	
hydrocarbon	C <sub>4</sub> H <sub>8</sub> (butylene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>4</sub> H <sub>8</sub>	
hydrocarbon	C <sub>4</sub> H <sub>10</sub> (isobutane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>4</sub> H <sub>10</sub>	
hydrocarbon	C <sub>5</sub> H <sub>8</sub> (pentadiene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>5</sub> H <sub>8</sub>	
hydrocarbon	C <sub>5</sub> H <sub>10</sub> (pentene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>5</sub> H <sub>10</sub>	
hydrocarbon	C <sub>5</sub> H <sub>12</sub> (isopentane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>5</sub> H <sub>12</sub>	
hydrocarbon	C <sub>6</sub> H <sub>12</sub> (hexene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>6</sub> H <sub>12</sub>	
hydrocarbon	C <sub>6</sub> H <sub>14</sub> (hexane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>6</sub> H <sub>14</sub>	
hydrocarbon	C <sub>7</sub> H <sub>14</sub> (heptene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>7</sub> H <sub>14</sub>	
hydrocarbon	C <sub>7</sub> H <sub>16</sub> (heptane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>7</sub> H <sub>16</sub>	
hydrocarbon	C <sub>8</sub> H <sub>16</sub> (octene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>8</sub> H <sub>16</sub>	
hydrocarbon	C <sub>8</sub> H <sub>18</sub> (octane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>8</sub> H <sub>18</sub>	
btex/aromatic	C <sub>6</sub> H <sub>6</sub> (benzene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>6</sub> H <sub>6</sub>	
btex/aromatic	C <sub>7</sub> H <sub>8</sub> (toluene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>7</sub> H <sub>8</sub>	
btex/aromatic	C <sub>8</sub> H <sub>10</sub> (xylene)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C <sub>8</sub> H <sub>10</sub>	
sulfur	H <sub>2</sub> S (hydrogen sulfide)	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	H <sub>2</sub> S
sulfur	COS (carbonyl sulfide)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	COS	
sulfur	SO <sub>2</sub> (sulfur dioxide)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	SO <sub>2</sub>
sulfur	CS <sub>2</sub> (carbon disulfide)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	CS <sub>2</sub>
sulfur	CH <sub>4</sub> S (methyl mercaptan)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	CH <sub>4</sub> S

Other applications are possible. Please contact LDetek for more details.