



INNOVATIVE GAS ANALYSIS SOLUTION

MULTIDETEK2 SERIES

- Compact Gas Chromatograph
- One chassis configuration (6U Rackmount)
- Multichannels, Multimethods, Multidetectors
- Detectors PED-TCD-FID
- Up to 6 isothermal or 3 programmable oven combination
- Up to 5 high purity proportional diaphragm valves (carrier-sample)
- Easy maintenance with its slide out design and front opening door
- ppb, ppm and % gas analysis
- Built in PC with 8.4" touch screen LCD & user-friendly interface
- Up to 10 high performance diaphragm valves
- Ethernet connectivity for remote control
- Integrated compact purifier with real end of life monitoring
- Serial/Profibus/Modbus communication protocols
- Fast parallel chromatography
- Multi heated zones to avoid cold points
- Purged & real time monitored zones for hazardous gases
- Multi sample injection techniques



PLASMADETEK SERIES

- Stand alone detector for any GC
- Heating up to 200 Celsius
- Ideal for ppb-ppm trace impurities
- Selective, sensitive and configurable
- Replaces ECD-FID-TCD-DID all in one detector
- Compatible with Helium, Argon, Nitrogen and Hydrogen as carrier gas
- Interchangeable optics & carrier gas type within seconds
- Run with LDChroma software interface

LD8000 SERIES

- ppb/ppm N2 in Ar - He - Ne - crude argon - multigas
- Built-in multi-stream selector system
- Integrated zero calibration gas generator system
- Detectors PED-TCD-NDIR-Electrochemical-Dewpoint for multigas configuration

LD2000 SERIES

- ppb/ppm THC in air - O2 - N2 - CO - CO2 - H2 He - Ar - Ne - Kr - Xe
- Electronic flow controllers for air, fuel and sample
- Safety fuel shutoff valve

LDRACK SERIES

- Rackmount cabinet integration
- Ex proof cabinet solution available



LDP1000 SERIES

- Purification of Noble gases, Nitrogen and Hydrogen
- Interchangeable getter philosophy
- Enhanced 2 beds of purification
- Different gas flow capability
- End of life monitoring

LDGDS SERIES

- Dilution system with interface
- UHP for generating ppb mixture
- Permeation mixture
- Integrated gas purifier

MULTIDETEK2 CHART V2:

Backgrounds →		Air	Ar	He	Ne	Kr	Xe	H ₂	O ₂	N ₂	CH ₄	CO	CO ₂	N ₂ O	C ₂ H ₄	C ₃ H ₆	NH ₃	CF ₄	C ₂ F ₆	SF ₆	NF ₃	C ₄ F ₈	C ₃ F ₈	C ₃ F ₇	C ₂ F ₅	SiH ₄	HCl	Cl ₂	WF ₆	SiF ₄	Syngas	Natural gas	← Back
Gas Types	Impurities	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Impurities				
↓	↓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	↓				
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	—	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	—	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	—	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	—	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	—	Xe			
permanent	H ₂ (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	—	H ₂			
permanent	O ₂ (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	—	O ₂			
permanent	N ₂ (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	—	N ₂			
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	—	CO			
permanent	CO ₂ (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	—	CO ₂			
permanent	H ₂ O (moisture)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	H ₂ O		
fluorocarbon	CF ₄ (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	—	CF ₄			
fluorocarbon	C ₂ F ₆ (hexafluoroethane)	X	X	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 ₂ F ₆			
greenhouse	SF ₆ (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	—	SF ₆			
greenhouse	N ₂ 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	—	N ₂ O			
inorganic	NF ₃ (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	—	NF ₃			
inorganic/toxic	NH ₃ (ammonia)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	—	—	X	—	—	—	—	—	—	—	X	—	NH ₃			
inorganic/toxic	PH ₃ (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	—	PH ₃			
inorganic/toxic	AsH ₃ (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	—	AsH ₃			
toxic	CH ₂ O (formaldehyde)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	—	—	X	—	—	—	—	—	—	—	X	—	CH ₂ O			
toxic	C ₂ H ₄ O (acetaldehyde)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	—	—	X	—	—	—	—	—	—	—	X	—	C ₂ H ₄ O			
hydrocarbon	CH ₄ (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	—	CH ₄			
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	—	NMHC			
hydrocarbon	C ₂ H ₂ (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	—	C ₂ H ₂			
hydrocarbon	C ₂ H ₄ (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	—	C ₂ H ₄			
hydrocarbon	C ₂ H ₆ (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	—	C ₂ H ₆			
hydrocarbon	C ₃ H ₆ (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	—	C ₃ H ₆			
hydrocarbon	C ₃ H ₈ (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	—	C ₃ H ₈			
hydrocarbon	C ₄ H ₄ (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	—	C ₄ H ₄			
hydrocarbon	C ₄ H ₆ (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	—	C ₄ H ₆			
hydrocarbon	C ₄ H ₆ (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	—	C ₄ H ₆			
hydrocarbon	C ₄ H ₈ (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	—	C ₄ H ₈			
hydrocarbon	C ₄ H ₁₀ (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	—	C ₄ H ₁₀			
hydrocarbon	C ₅ H ₈ (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	—	C ₅ H ₈			
hydrocarbon	C ₅ H ₁₀ (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	—	C ₅ H ₁₀			
hydrocarbon	C ₅ H ₁₂ (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	—	C ₅ H ₁₂			
hydrocarbon	C ₆ H ₁₂ (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	—	C ₆ H ₁₂			
hydrocarbon	C ₆ H ₁₄ (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	—	C ₆ H ₁₄			
hydrocarbon	C ₇ H ₁₄ (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	—	C ₇ H ₁₄			
hydrocarbon	C ₇ H ₁₆ (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	—	C ₇ H ₁₆			
hydrocarbon	C ₈ H ₁₆ (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	—	C ₈ H ₁₆			
hydrocarbon	C ₈ H ₁₈ (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	—	C ₈ H ₁₈			
bTEX/aromatic	C ₆ H ₆ (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	—	C ₆ H ₆			
bTEX/aromatic	C ₆ H ₈ (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	—	C ₆ H ₈			
bTEX/aromatic	C ₆ H ₁₀ (xylyne)	X	X	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 ₆ H ₁₀			
sulfur	H ₂ S (hydrogen 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	—	H ₂ 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	—	COS			
sulfur	SO ₂ (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	—	SO ₂			
sulfur	CS ₂ (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	—	CS ₂			
sulfur	CH ₄ 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	—	CH ₄ S			
sulfur	THT (tetrahydrothiophene)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	THT				
sulfur	TBM (tert-butylthiol)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	TBM					
Backgrounds →		Air	Ar	He	Ne	Kr																											