

# LDP1000 SERIES



## GAS PURIFIER COMPATIBLE WITH ANY TRACE GAS ANALYSIS SYSTEM

The LDP1000 series is a sub ppb purifier used for generating high purity calibration gas for online analyzers as well as generating high purity carrier gas for gas chromatograph.

Designed with two steps of purification, this purifier design ensures no undesired impurity is released during process.

### WHY CHOOSING LDP1000 SERIES ?

- **2 beds of purification**  
Allows perfect purification
- **RS-232 port**  
Monitor the temperature of the 2 beds of purification
- **LEDs indication**  
Self-diagnostic and status of the purifier
- **Cost effective solution for long-term use**  
Interchangeable getter
- **Available in different format**  
Compact version makes it ideal when space is limited
- **Real end of life monitoring**  
Combined with PED technology and MultiDetek series, LDP1000 series gas purity can be monitored in real time to offer real auto diagnostic.



## SPECIFICATIONS:

|                                       |                                                                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GETTER TYPE</b>                    | Alloy of Zr/V/Fe<br>2 beds (350 and 200 Celsius)                                                                                                                                                                       |
| <b>GASES PURIFIED</b>                 | Ar/He/Ne/Xe/Kr - Nitrogen and hydrogen version available                                                                                                                                                               |
| <b>IMPURITIES REMOVED</b>             | H <sub>2</sub> O, O <sub>2</sub> , CO, CO <sub>2</sub> , N <sub>2</sub> , THC, H <sub>2</sub> , CH <sub>4</sub> (heated)<br>H <sub>2</sub> O, O <sub>2</sub> , CO, CO <sub>2</sub> , H <sub>2</sub> (room temperature) |
| <b>IMPURITY LEVEL</b>                 | <10 ppb and <1 ppb available                                                                                                                                                                                           |
| <b>FLOW</b>                           | 200 cc/min (nominal) Higher flow rate version available (contact LDetek for more details)                                                                                                                              |
| <b>GAS CONNECTIONS</b>                | 1/16" - 1/8" - 1/4"<br>compression or VCR®                                                                                                                                                                             |
| <b>RECOMMENDED OPERATING PRESSURE</b> | 100 PSIG (689 kPAG)                                                                                                                                                                                                    |
| <b>SUPPLY</b>                         | 120 VAC, 50 - 60 Hz or 220 VAC, 50 - 60 Hz                                                                                                                                                                             |
| <b>POWER CONSUMPTION</b>              | Start-up : maximum 200 Watts (allows quick start-up)<br>Normal operation : maximum 50 Watts (designed for low consumption)                                                                                             |
| <b>WEIGHT</b>                         | 5 lbs (2.26 kg) LDP1000<br>2 lbs (0.90 kg) Compact-LDP1000                                                                                                                                                             |

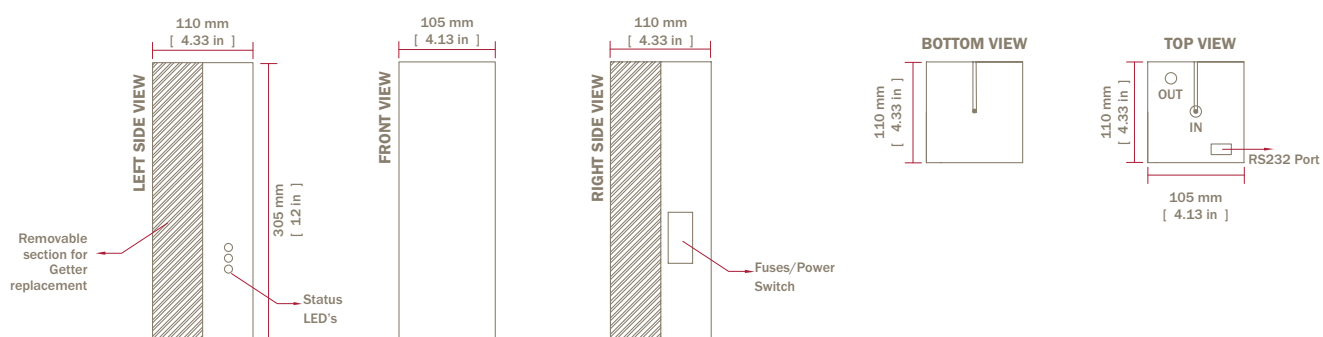
## CERTIFICATION:

**CE** In compliance with EMC directive 2004/108/EC, EN 61000-6-2:2005 for immunity & EN 61000-6-4:2007 for emissions.

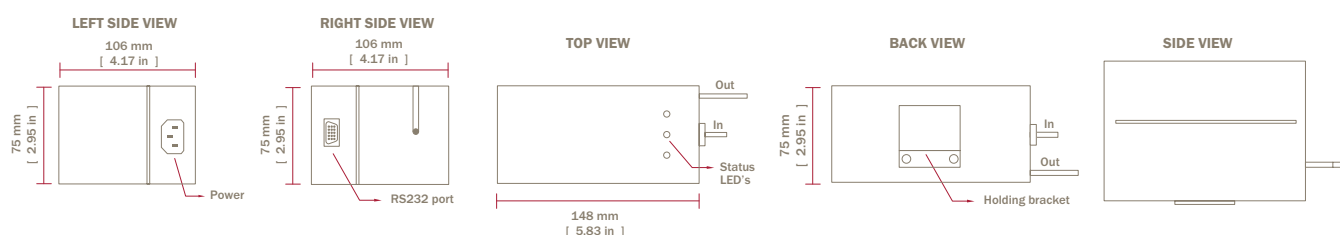
## ORDERING INFORMATION:

| LDP1000,<br>COMPACT-LDP1000<br>OR GETTER | -XXX                                                       | -X                                                                                        | -X                                                             | -X                                               | -X                                                                                                                                                  |
|------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                          | Operating Voltage:<br>120 volts (-120)<br>220 volts (-220) | Gas type:<br><b>None:</b> Noble gases<br><b>N:</b> Nitrogen version<br><b>H:</b> Hydrogen | Connection size:<br><b>1/16"</b><br><b>1/8"</b><br><b>1/4"</b> | Connection Type:<br>Compression (-C)<br>VCR (-V) | Supporting plate:<br><b>None:</b> no plate<br><b>P :</b> Stainless steel supporting plate with high purity bypass valve & 2 in/out isolation valves |

## DIMENSIONS LDP1000:



## DIMENSIONS COMPACT-LDP1000:



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