# Rainbow Series – PID Sensor

American Technology + Chinese Efficiency = Best Value



Applications Uniques LLC and Hunan Senqi are introducing a new high performance series of PID sensors that incorporates the very best available PID technology from the USA and Europe, manufactured and tested in China to our exacting standards.

The Rainbow Series of photoionization sensors covers the useful range of PID with the largest selection of standard measurement ranges on the market. Extended ranges are available upon request.

#### **Features**

- Long Life 7500 hours lamp and detection cell lifetime
- Temperature Stable up to 65 deg C Response variation typically < 10% of FS
- Humidity Tolerant (0% to 95% RH) with minimal quenching ( < 15% from 0% RH to 95% RH)
- Sensitive and Repeatable performance
- Easy Access to filters, detector cell and lamp for regular maintenance
- Direct Replacement for more expensive and poor performing products
- Fast Warm-up to stable operation
- Low Power consumption
- Affordable and high performance

#### **Ranges and Specifications:**

The Rainbow series of PID sensors from Applications Uniques LLC offers the most standard range configurations of any PID sensor manufacturer.



- Six standard ranges from 10 ppm to 500 ppm
- Custom ranges available from 1 ppm FS to 10,000 ppm FS
- Sensitivity to ≤ 1 ppb isobutylene
- Linear range to 2.5V
- Response time (T90) < 10 seconds (sample and range dependent)



#### **Electrical**

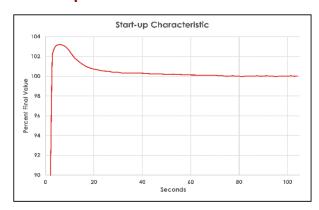
- Supply Voltage 3.2V to 5.5 V
- Current draw 24mA to 36 mA

#### **Applications**

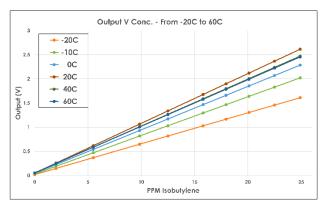
- Hand-held or Fixed Instruments
- Confined Space Entry
- Fugitive Emissions Detection
- Environmental Monitoring (Ambient/Fence-line/IAQ)

# Rainbou Series S

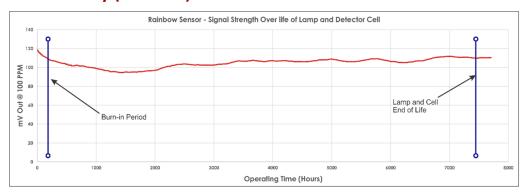
#### Warm-up Time



## **Temperature Effect/Gain Shift**



### **Gain Stability (life-time)**



**Note:** All data presented here represents typical performance.

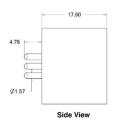
Actual results are dependent upon test conditions and product variation

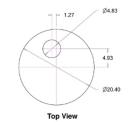
#### **Mechanical Details**

The Rainbow Series sensor is based upon the common 4S PID sensor standard as popularized by the original PID Sensor manufacturer.

## 2.54 2.54 3.38

#### Physical Dimensions (mm)





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