

## Principle and Technology of the IMR800



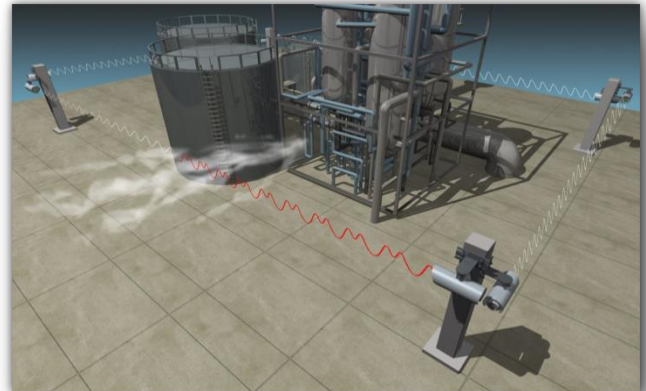
- Technology---TDLAS Technology (Tunable semiconductor laser absorption spectrum technology).
- Principle---Bill Lambert (Beer-Lambert) law:

$$I(t) = I_0(t) \exp[-\alpha(\nu)CL]$$

- Advantage---It's good to solve the problems of interference by background gases, dust and pollution of windows etc. The precision is higher, selectivity is better and response time is shorter.

## Advantages of the IMR8000

- Advance technology of TDLAS
- High selectivity of methane, but not interfered by other gases
- High accuracy and sensitivity
- Good resistance against sun, water, sand, wind and shock
- Less drift due to temperature
- Longer life span and low maintenance cost



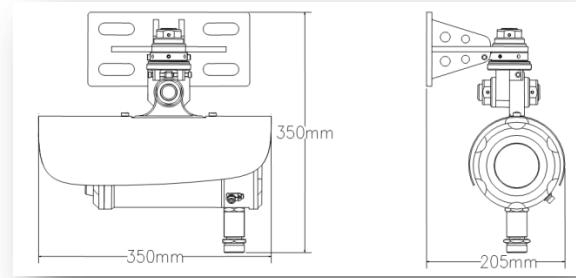
## Applications

- Natural Gas Pipe Lines
- Oil platforms
- Separation of Gas Storage Stations
- The IMR 8000 can work in severe environments
  - Sea Water
  - Snow, fog, Rain, Ice



### Specifications

- Range: 0~100%LEL · m
- Working distance: 120m
- Working humidity: 0~95%RH
- Working temperature: -40°C ~ +60°C
- Zero drift: ±5%LEL·m
- Ingress protection: IP66
- Ex d IIC Tb Gb Certified
- 316L stainless steel housing
- 4 ~ 20mA or RS485 signal output
- Power input: 14-32VDC



### Accessories

Remote Controller



Calibration Gas Chamber

