



## Online Continuous Emission Monitoring System

### Features:

- Sensor based system for various parameters.
- Gas concentration unit available for %LEL, PPM, %VOL, mg/m<sup>3</sup>.
- CPCB/Cloud Connectivity.
- Solar power based.
- With TUV-SUD/CE Certificates.

### About :

The flue gas analyzer developed based on the ultraviolet spectroscopic absorption spectroscopy technology is a flue gas analyzer product independently researched and developed by our company for on-line gas analysis at home and abroad. The analyzer can measure the concentration of SO<sub>2</sub>, NO<sub>x</sub> and other gases, and has the characteristics of high measurement accuracy, high reliability, fast response time and wide application range.

| Types                          | Details   |
|--------------------------------|---|
| Model                          | RWPE-FG300A   |
| Technology                     | UV absorption Spectroscopy  |
| Range                          | SO <sub>2</sub> 0-1000/2000ppm (range can be customized)<br>NO 0—1000/2000ppm (range can be customized)<br>CO <sub>2</sub> 0-20%<br>CO 0-500ppm |
| ResponseTime(T <sub>90</sub> ) | <10s (instrument response time, non-system response time)   |
| Application                    | Stack / Flue Gas  |

## Online SPM



### About :

The RWPE -SPM 100 soot /dust concentration monitor uses the laser backscattering principle to determine the soot concentration of the flue to be tested. The embedded high-stability laser signal source traverses the flue and irradiates the soot particles. The irradiated soot particles will reflect the laser signal, and the reflected signal intensity and the soot concentration will change positively. The weak laser signal reflected by the smoke is detected, and the concentration of the flue dust can be calculated by a specific algorithm.

### Features:

- Compact sensor based system with low maintenance.
- IOT/Cloud Connectivity.
- Extremely low zero drift design technology.
- Optional RS-485 out for SCADA.

| Types                          | Details   |
|--------------------------------|---|
| Model                          | RWPE-SPM100                                       |
| Technology                     | Laser backscattering principle                    |
| Range                          | 0-1000mg/m <sup>3</sup> (range can be customized) |
| Range drift                    | ±2%F.S./24  |
| ResponseTime(T <sub>90</sub> ) | ≤10s  |
| Application                    | Stack / Flue Gas                                  |



#### About :

The Electromagnetic Flow Meter accurately measures the flow rate of any conducting liquid or slurry that is flowing in closed pipes. It is obstruction less and hence offers no pressure drop in the process. The absence of moving parts ensures that there is no need for maintenance. The performance of the instrument is not affected by the properties of the material such as corrosiveness, viscosity, density, acidity, and alkalinity. It can measure the flow of liquids, pastes, and slurries in water, wastewater. Suitable for chemical, fertilizer, paper, dairy, sugar, food and beverage industries.

### Water Flow Meter

#### Features:

- Unaffected by the temperature, pressure, density, or viscosity of the liquid.
- Able to detect liquids that include contaminants (solids, air bubbles)
- There is no pressure loss.
- No moving parts (improves reliability)

| Type                  | Details   |
|-----------------------|---|
| • Line Size           | 15 NB to 600 NB   |
| • Flow Units          | M3/H, M3/M, M3/S, L/H, L/M, L/S, USG/H, USG/M, USG/S                    |
| • Output              | 4-20 mA & Pulse   |
| • Power Supply        | 220 VAC/ 24 VDC   |
| • Process Temperature | Up to 80 Degree Celsius for Rubber<br>Up to 150 Degree Celsius for PTFE |

### Online Water Analyser



#### About :

Mainly based on UV spectroscopy, well known for its stability and low operating cost, the UV300 can measure parameters like organic matter, nitrate, color, aromatics hydrocarbons (PAH). Its automatic cleaning system and its extremely long life time lamp, the maintenance is roughly limited to the periodic refill of the inexpensive cleaning solution. A new web-based interface allows the control and the trouble shooting from internet on laptop, tablet or i-phone.

#### Features:

- Auto zero done on cleaning solution
- Allows very high level of suspended solid without clogging for all the optical measurements making it suitable for industrial & municipal waste water application
- External probes can be added for physiochemical parameters like pH, ORP, dissolved oxygen, conductivity and turbidity.
- Certifications CE, EN 61010-1, EN 61326.

| S.NO | TYPE               | DETAILS   |
|------|--------------------|---|
| 1    | Model              | RWPE-UV-300   |
| 2    | Technology         | UV Visible Spectroscopy   |
| 3    | Parameters & Range | Refer datasheet   |
| 4    | Sample Flow        | Recommended: 0-5 l/min  |
| 5    | Application        | Pharmaceutical, Chemicals, Petrochemicals, Refineries, Industries etc.. |

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