

Tunable Laser Hydrogen Chloride Analyzer

TX-100

TX-100 is HORIBA's brand new laser HCl analyzer with a probe type optical system which employs direct insert method.

TX-100 is suitable for monitoring HCl concentration in incineration plants and the control of HCl removal process in various industries including cement factories and petrochemical plants, etc.

Probe type optical system

- ▶ Both laser projector and receiver are together at the same side of the analyzer
- Only one process connection tie-in is required for the installation of the analyzer
- ► Easy replacement to an existing analyzer (e.g. sampling type analyzer)
- ▶ The probe that maintains the optical axis performs stable analysis
- Continuous moisture correction function supports high accuracy measurement

Laser analyzer

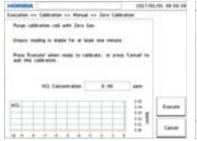
- Non-sampling method provides direct measurement and quick response
- ► Feedback control available
- Excellent long-term stability
- No maintenance for effluent treatment because no reagent is required

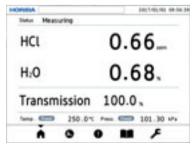
HORIBA's original calibration mechanism

The analyzer calibrates without any disruption to the facility's operations

The zero point can be checked automatically and the signals are kept in stable
condition over long term

(US patent No. 8934101; patent pending for Japan, Europe, and China)





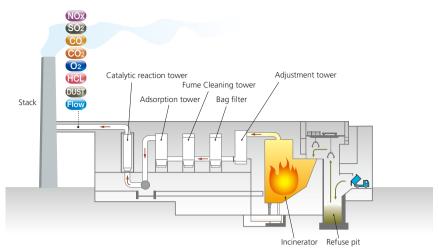


How does the probe type optical system work?

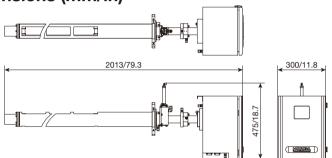
From the same location in the analyzer, the light source and detector are attached to a probe which is inserted into the stack. A mirror installed at the tip of the probe receives and reflects the laser light through the probe, back to the detector.

The screen with high visibility displays daily operation statuses such as measurements, etc.

Application example: Measurement point of stack gas in an incineration plant



Dimensions (mm/in)



Related analyzers

Stack Gas Analyzer

ENDA-5000 series

NOx, SO₂, CO₂, CO, O₂

NOx: 0-200 to 5000ppm SO₂: 0-200 to 5000ppm CO2: 0-5 to 25vol%

CO: 0-200 to 5000ppm O2: 0-10 to 25vol%



■ Stack Gas Dust & Flow Analyzer

EM-D/F 5000 series

Dust, Opacity, Gas velocity, Volume flow

Dust: 0- 0.5 to 10,000 mg/m³ Opacity: 0-100% Velocity: 0- 3 to 50 m/s

Volume flow: 0-3000000 Nm³/h





The HORIBA Group adopts IMS (Integrated Management System) which integrates Quality Management System IS09001, Environmental Management System IS014001. and Occupational Health and Safety Management System OHSAS18001. We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencies

Please read the operation manual before using this product to assure safe and proper handling of the product.

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