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LGT-350 Laser Humidity Analyzer

Product Overview

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LGT-350 Laser Humidity Analyzer is a high-precision humidity analysis product based on Tunable Diode Laser Absorption Spectroscopy (TDLAS), which can measure humidity in in-situ single ended method. The product adopts imported semiconductor laser as light source. It regulates laser frequency through modulating working current intensity of the semiconductor laser to



concentration of measured gas by detecting attenuation information of laser intensity.

| Features

- Optical non-contact measurement with small drift and long service life
- Adopt single-ended method for measurement, no need of complex adjustment for optical path
- Employ "Single-line spectrum" measurement, free from cross interference of background gases
- Realize alternative calibration technology and solve making problem of H₂O standard gas; high calibration accuracy
- Use in-situ measurement, no need of pretreatment system; prevent problems of absorption, blockage and component damage in preprocessing and sampling process; reducing operating cost

| Applications

It can be applied in flue gas humidity measurement in CEMS and various industries including lumbering, building material industry, paper-making industry, chemical industry, pharmacy, fiber industry, textile industry, vegetable & food



drying kiln of ceramics and drying furnace of covered
electrode, etc.

| Specifications

Range: 0~40% (customizable)

Linearity error: $\leq 1\%F.S.$

Span drift: $\leq 1\%F.S./$ half a year

Zero drift: $\leq 1\%F.S./$ half a year

Analog input: 4x4-20mA input (temperature, pressure
compensation)

Analog output: 3x4-20mA output (isolation, max load of
750 Ω) Response time: $\leq 1s$ (T90)

Digital output: RS485/RS232/GPRS

Working temperature: $-20^{\circ}C \sim 60^{\circ}C$

Purge gas: (0.3~0.8)MPa Nitrogen or purified
instrument air

Installation method: In-situ method

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