ODORIZATION QUALITY

Online THT Odorant Analyzer

THT-GC110 / THT-EC110

Monitor tetrahydrothiophene (THT) in natural gas to support odorization review and operating records. Select the measurement principle and sampling arrangement for the actual gas stream.

PRODUCT & CONFIGURATION

THT-GC110 / LGC110 Gas chromatography. Resolution: 0.1 mg/m3; sensitivity: 1 mg/m3; analysis time: less than 300 s. Carrier gas: clean air.

THT-EC110 / LEC110 Electrochemical. Range: 0-50 mg/m3; accuracy: +/-5% F.S.; resolution: 0.1 mg/m3.

Model reference THT-GC110 and THT-EC110 are global commercial names. The cited manufacturer pages use LGC110 and LEC110 respectively.

APPLICATION FIT

Gas utility odorization monitoring at suitable sampling points. Review inlet pressure, moisture, contaminants, sample conditioning and disposal before defining the installation.

SELECTION BOUNDARY

The two analyzers use different measurement principles and separate specifications. Use the selected model for THT odorant analysis; ambient methane leak detection is a different task.

FOR A PRODUCT SELECTION / QUOTATION REQUEST

1. Country, project, quantity and preferred model (or selection assistance).
2. Odorant composition; concentration range, units and reference conditions.
3. Sample pressure / temperature, moisture, sampling points and required cycle.
4. Utilities, hazardous area, calibration, interfaces and acceptance criteria.

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References: Hanwei LGC110 | Hanwei LEC110

GAS NETWORK PRESSURE

Wireless Gas Pressure Monitor

WP180

Collect pressure data from gas facilities and report it wirelessly for operating review and abnormal-condition follow-up. Choose the number of pressure points and reporting profile for each site.

PRODUCT & CONFIGURATION

Channels and network Single / dual channel; 4G / NB-IoT wireless data transmission.

Power and reporting Lithium-battery operation. Scheduled or event-triggered upload of pressure, battery level and abnormal-condition information.

Data management The associated management software supports pressure-data statistics, queries and backups.

APPLICATION FIT

Gate stations, regulator stations and regulator cabinets where periodic or event-based pressure reporting meets the operating requirement.

SELECTION BOUNDARY

The manufacturer positions this product for remote monitoring where demanding real-time data delivery is not required. Pressure monitoring and immediate safety shutdown are different tasks.

FOR A PRODUCT SELECTION / QUOTATION REQUEST

1. Country, site count, channel count and measurement-point locations.
2. Pressure range and units for each point; tapping connection and mounting.
3. Network coverage, reporting interval, alarm thresholds and platform interface.
4. Power arrangement, environment, required certificates and commissioning scope.

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References: Hanwei WP180

MOBILE GAS NETWORK SURVEY

Vehicle-mounted Methane Leak Detection System

Roof: VMLD700II Pro | Front sampling: V8 or V9

Combine remote methane screening with extractive gas measurement and route records to support mobile gas-network surveys and targeted field investigation.

PRODUCT & CONFIGURATION

Roof-mounted unit VMLD700II Pro: remote laser methane screening, separate from the extractive sampling unit.

Front-mounted V8 / V9 V8 methane range: request confirmed limits and units. V9 methane range: 0-10,000 ppm; ethane range: 0-1,000 ppm. These ranges apply to the front modules only.

System functions Onboard display, voice alarms, positioning / GIS, patrol records and remote-platform reporting. The Pro system page lists WiFi and 4G / 5G router data transmission.

APPLICATION FIT

Vehicle-accessible gas distribution routes. Plan the survey route, vehicle fit, sampling arrangement and follow-up inspection workflow together.

SELECTION BOUNDARY

Methane and ethane measurements support source assessment and field investigation. Extractive concentration ranges do not describe remote optical measurement or establish an emission rate.

FOR A PRODUCT SELECTION / QUOTATION REQUEST

1. Country, utility, route conditions, vehicle details and survey frequency.
2. Roof-unit requirement; V8 / V9 preference and target CH4 / C2H6 ranges.
3. Vehicle power, mounting, sampling layout and environmental conditions.
4. GIS / data export, demonstration route, training and acceptance criteria.

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References: Hanwei Pro system | Hanwei V8 / V9 system

REMOTE METHANE INSPECTION

Handheld Laser Methane Detector

HRLD600

Inspect for methane remotely using a handheld laser instrument. Non-contact screening supports gas patrols and follow-up checks where direct access to the suspected area is difficult.

PRODUCT & CONFIGURATION

Gas and principle Methane (CH4); TDLAS remote laser measurement.

Published performance Range: 0-100,000 ppm.m; sensitivity: 5 ppm.m; response: T90 <0.05 s.

Operator functions Audible / visible alarms, LCD concentration display and waveform display. Bluetooth upload to a remote monitoring platform.

APPLICATION FIT

Gas transmission and distribution patrols and targeted methane checks. Assess line of sight, working distance, reflecting surfaces and site conditions when planning a demonstration.

SELECTION BOUNDARY

ppm.m is a path-integrated measurement, not a point concentration or emission rate. HRLD600 detects methane; LPG / propane, oxygen and toxic-gas monitoring require other instruments.

FOR A PRODUCT SELECTION / QUOTATION REQUEST

1. Country, quantity and patrol / follow-up inspection task.
2. Target methane source, working distance and access / visibility conditions.
3. Required accessories, data recording and integration needs.
4. Operating environment, certificates, demonstration and training requirements.

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References: Manufacturer HRLD600

HOUSEHOLD GAS SAFETY

Battery-Powered Natural Gas Alarm

JT-KBA6

Provide methane-leak warning in household kitchens using internal battery power. This approach is relevant to older homes where a suitable electrical outlet is unavailable or additional power wiring is difficult.

PRODUCT & CONFIGURATION

Gas and sensing Methane (CH4) with non-dispersive infrared (NDIR) sensing.

Published values Detection range: 0-100% LEL; alarm setpoint: 10% LEL; operating voltage: DC 3.6 V.

Local functions Audible / visual alarm, status indication, self-check button and low-battery warning. Internal battery power avoids external power wiring.

APPLICATION FIT

Residential natural-gas kitchens and household safety retrofit projects. Installation position and permitted conditions must follow the supplied model instructions and local requirements.

SELECTION BOUNDARY

For household methane / natural-gas monitoring. Follow the installation and maintenance instructions. The manufacturer describes sensor life separately from battery servicing; the two are not interchangeable.

FOR A PRODUCT SELECTION / QUOTATION REQUEST

1. Destination country, household gas type, building type and quantity.
2. Kitchen conditions, installation plan and rollout schedule.
3. Local alarm only, or required reporting / compatible valve linkage.
4. Applicable approvals, battery service plan, training and acceptance requirements.

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References: Manufacturer JT-KBA6 | Hanwei retrofit article

FIXED ENVIRONMENTAL MONITORING

Valve Chamber & Network Gas Monitoring

WG160II / WG360II

Monitor methane at gas-network risk points and define a remote alarm-follow-up workflow. Select the exact WG model, mounting form and sensor package for each installation.

PRODUCT & CONFIGURATION

WG160II Review for gas valve chambers and underground spaces; confirm the supplied methane, temperature and water-intrusion channels.

WG360II Gas-network monitoring with model-specific mounting and sensor configurations.

Project selection Select the monitoring points, required measurements and installation arrangement as part of the site survey.

APPLICATION FIT

Gas valve chambers and other reviewed network monitoring points. Site drawings, water exposure, signal coverage and maintenance access are essential selection inputs.

SELECTION BOUNDARY

These are environmental gas-monitoring products, not inline gas-quality analyzers. Monitoring supports alarm follow-up and does not replace safe-entry procedures.

FOR A PRODUCT SELECTION / QUOTATION REQUEST

1. Country, number of points, site photographs / drawings and target gas.
2. Required sensors, exact model and wall / pole / buried mounting needs.
3. Water depth / duration, humidity, access and maintenance arrangements.
4. Network coverage, reporting interval, platform, approvals and pilot criteria.

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References: WG160II product selection | WG360II product selection.
WG160II and WG360II are separate model selections.