

[Main specification and performance of analyzer]

Model	Kiosk Gas Analyzer 4Gas / 5Gas
Type	KT-224G / KT-225G
Measurement item	HC(n-hexane, propane), CO, CO ₂ , O ₂ , LAMBDA, AFR NO _x (KT-225G), RPM & OIL TEMP(optional)
Measurement method	HC, CO, CO ₂ : Non-dispersive Infrared (NDIR) measurement O ₂ , NO _x : Electro Chemical Cell Lambda : Brettschneider formula Application AFR : R.S. Spindt formula(SAE Paper 650507, 1965) Application
Accuracy	CO : 0.00 – 10.00 % (±0.02% abs, or ±3% rel) HC(n-hexane) : 0 – 2,000 ppm (±4ppm abs, or ±3% rel) 2001 – 10,000 ppm (±5% rel.) CO ₂ : 0.00 – 16.00 % (±0.3% abs, or ±3% rel) O ₂ : 0.00 – 25.00 % (±0.01% abs)
Resolution	HC, NO _x : 1 ppm CO, CO ₂ , O ₂ : 0.01%
Response time	HC, CO, CO ₂ : Less than 8 seconds (With 5m sample line connected) O ₂ , NO _x : Less than 10 seconds (With 5m sample line connected)
Preheating time	Less than 120 seconds normally
Sampling flow	Pump : about 2.0L Sensor : about 1.5L
Display	24" TFT-LCD (1920 x 1080)
Input device	24" Touch Screen, Mouse, Keyboard
Output device	Supports USB and network printer output
Temperature	10 – 50°C (CO, HC, CO ₂) -20 – 50°C (O ₂ , NO _x)
Humidity	0 – 90% RH
Atmospheric pressure	813 – 1060 mBar
Probe	Material: SUS-304 Length : 400mm Inner diameter: 5mm Outer diameter: 17 mm
Hose	Material: SUS-304 Length : 400mm Inner diameter: 5mm Outer diameter: 17 mm
Size	Kiosk all size : (W)560mm x (D)560mm x (H)1530mm Gas meter size : (W)350mm x (D)170mm x (H)170mm
Weight	About 41kg
Input power	AC 110~240V 50/60Hz

Mode	Smoke
Measurement item	Smoke Opacity, absorption coefficient(K-value : Scale range from 0.00 to 16.06m ⁻¹)
Measurement method	Partial flow sampling method / light transmission type
Photoelectric device	Green LED (565nm)
Detector	Photodiode
Tube length / Inner diameter	Length: 215mm (±0.5mm), inner diameter21mm
Measuring range	Opacity : 0.0%~ 100.0% / Light absorption rate: 0.00 ~ 16.06m ⁻¹
Resolution	0.1%
Accuracy	< 1.0 % of opacity in the full range. < 0.5 % guaranteed at final check in production.
Response time	< 0.5± 0.015sec
Physical response time	Within 0.2 seconds (cyclic response)
Filter	2nd vessel filter(1sec)
Preheating time	Within 5 minutes
Tube temperature	Within 5 minutes
Atmospheric pressure and measurement cell pressure difference	0.70 kPa or less
Probe	Material: SUS-304 , Length : 400mm Inner diameter: 5mm Outer diameter: 17 mm
Hose	Material: Silicone Length: 1,500 / 2,500 / 5,000 Inner diameter: 12 mm Outer diameter: 22 mm
Size	(W)370mm x (D)190mm x (H)340mm
Weight	about 5kg
Input Power	AC 110~240V 50/60Hz