

WGA

WGA-020

Item#	Description	Comments	Related articles	Image
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## Instruments

### Wastewater Gas Analyser (WGA)

WGA-020	<p>WASTEWATER GAS ANALYSER - WGA 020</p> <ul style="list-style-type: none"> <li>&gt; Gas measurements: N2O • CH4 • CO2 • O2</li> <li>&gt; Measurement Range N2O: 0 - 1000 ppm • CH4: 0 - 1000 ppm • CO2: 0 - 10 % • O2: 0 - 20%</li> <li>&gt; Detection Limit (approximately) N2O: 0.5 ppm • CH4: 5 ppm • CO2: 50 ppm</li> <li>&gt; Emission Rate sensitivity N2O: 0.8 mg/m<sup>2</sup>/h • CH4: 3 mg/m<sup>2</sup>/h • CO2: 84 mg/m<sup>2</sup>/h</li> <li>&gt; For measurements of (greenhouse-) gas emissions from wastewater treatment plants</li> <li>&gt; Connection of up to two sampling hoods</li> <li>&gt; Total gas flow measurement with emission calculation</li> <li>&gt; Internal temperature stabilisation with heating and gas sample drying</li> <li>&gt; Ambient temperature • Ambient Pressure • Internal data storage</li> <li>&gt; Data communication: LAN • Data storage on USB • Analogue Current (4-20mA) with separate converter module • Remote UMTS Network with separate service package</li> <li>&gt; Time resolution 60 s (internal 1s)</li> <li>&gt; Power connection: 24V DC, max. 120W</li> <li>&gt; Size 66 x 40 x 24 cm<sup>3</sup> • Weight 25 kg • Display 5" • IP64 for Outdoor use • With sun roof</li> <li>&gt; Included: Particle Filters • Gas Filters • 25 m Plastic tubing (background line)</li> <li>&gt; Patent applied: PCT/EP2024/087231</li> </ul>		<p>REQUIRED ARTICLES: EXTERNAL POWER SUPPLY 24 V / 5 A IP67 [ACC-PWR24-5A-IP] • SAMPLING HOOD [WGA-HOOD2]</p> <p>RECOMMENDED ARTICLES: MAINTENANCE SERVICE [WGA-SERV-MAINT]</p>	<p><b>IMAGE COMING SOON!</b></p>	•
WGA-HOOD1	<p>WASTEWATER GAS ANALYSER - SAMPLING HOOD M1</p> <ul style="list-style-type: none"> <li>&gt; Stainless steel sampling hood to collect gas emissions on wastewater basin</li> <li>&gt; Self-floating with four fenders</li> <li>&gt; Aluminium holding frame for mounting on railing • hood position close to railing</li> <li>&gt; Flexible connection to hood • up to 25 cm water height adjustment</li> <li>&gt; Aluminium frame for mounting on railing</li> <li>&gt; 5m sampling line 25 mm outer diameter (other lengths on request)</li> </ul>		<p>RECOMMENDED ARTICLES: WASTEWATER GAS ANALYSER - SAMPLING LINE HEATING 5 M [WGA-LHEAT-5M]</p>	<p><b>IMAGE COMING SOON!</b></p>	•
WGA-HOOD2	<p>WASTEWATER GAS ANALYSER - SAMPLING HOOD M2</p> <ul style="list-style-type: none"> <li>&gt; Stainless steel sampling hood to collect gas emissions on wastewater basin</li> <li>&gt; Self-floating with four fenders, stabilised</li> <li>&gt; Hood fixed with ropes in the basin • flexible height adjustment with water level</li> <li>&gt; Stainless steel bar with length 2m from railing to guide tube between railing to hood</li> <li>&gt; 5m sampling line 25 mm outer diameter (other lengths on request)</li> </ul>	Price per unit. Optional second unit available.	<p>RECOMMENDED ARTICLES: WASTEWATER GAS ANALYSER - SAMPLING LINE HEATING 5 M [WGA-LHEAT-5M]</p>	<p><b>IMAGE COMING SOON!</b></p>	•

### OPTIONAL INSTRUMENT CONFIGURATIONS (TO BE ORDERED WITH THE INSTRUMENT)

WGA-LHEAT-5M	<p>WASTEWATER GAS ANALYSER - SAMPLING LINE HEATING 5 M</p> <ul style="list-style-type: none"> <li>&gt; SAMPLE LINE HEATING for 25 mm tubing</li> <li>&gt; Self regulating heating to avoid water condensation at cold temperatures</li> <li>&gt; Tubing isolation • Deactivation regulator at high temperatures</li> <li>&gt; Separate power box</li> </ul>	Price per unit. Optional second unit available. other lengths on request		<p><b>IMAGE COMING SOON!</b></p>	•
WGA-SIGNAL-CON1	<p>WASTEWATER GAS ANALYSER - SIGNAL CONVERTER</p> <ul style="list-style-type: none"> <li>&gt; DATA SIGNAL CONVERTER CONTROLLER</li> <li>&gt; LAN data signal to current 4 - 20 mA</li> <li>&gt; 8 data ports</li> </ul>			<p><b>IMAGE COMING SOON!</b></p>	•

### EXTENSIONS AND ACCESSORIES

ACC-PWR24-5A-IP	<p>EXTERNAL POWER SUPPLY - 180 TO 280 V - 24 V / 5 A</p> <p>IP67 power supply and connector configured for Airyx instruments with 24V</p>	Power supply for Airyx OPC instruments • Input: 110 V to 220 V • Output: regulated 24 V / 5 A. Use power extension cable between power supply and instrument.			•
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Item#	Description	Comments	Related articles	Image	
<b>SERVICES</b>					
WGA-SERV-INST	WGA SERVICE: INSTALLATION WGA SYSTEM AT WASTEWATER PLANT IN GERMANY > Preparation of installation / planning > Adaptation of mechanical installation construction / hood holder to location > Installation WGA system on wastewater treatment plant > Initial operation > incl. travel costs for two installation technicians > On site calibration check	> Other countries on request			•
WGA-SERV-MON	WGA SERVICE: MONITORING WGA SYSTEM - PER MONTH > Remote monitoring WGA operation > Incl. UMTS mobile internet connection of WGA > Support / exchange with wastewater plant operator				•
WGA-SERV2-MON	WGA SERVICE 2: BASIC UMTS SERVICE - PER MONTH > Remote access WGA operation > Incl. UMTS mobile internet connection of WGA				•
WGA-SERV-MAINT	WGA SERVICE: MAINTENANCE IN GERMANY > Yearly WGA maintenance on site > Calibration zero and calibration point for: N2O • CH4 • CO2 > Replacement of gas filters (CO2, N2O, particle filter) > Cleaning sampling hood and sampling line > System check incl. small repairs > Incl. travel costs for technicians				•

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**RENTAL / TRAINING / MEASUREMENT SERVICE**

	<b>Airyx provide a large range of Measurement services, instrument rental and training. Please contact Airyx for more details.</b>				•
WGA-RENT-1M	<p>RENTAL WASTEWATER GAS ANALYSER - WGA 020 - PER MONTH</p> <ul style="list-style-type: none"> <li>&gt; Gas measurements: N2O • CH4 • CO2 • O2</li> <li>&gt; Measurement Range N2O: 0 - 1000 ppm • CH4: 0 - 1000 ppm • CO2: 0 - 10 % • O2: 0 - 20%</li> <li>&gt; Detection Limit (approximately) N2O: 0.5 ppm • CH4: 5 ppm • CO2: 50 ppm</li> <li>&gt; Emission Rate sensitivity N2O: 0.8 mg/m<sup>2</sup>/h • CH4: 3 mg/m<sup>2</sup>/h • CO2: 84 mg/m<sup>2</sup>/h</li> <li>&gt; For measurements of (greenhouse-) gas emissions from wastewater treatment plants</li> <li>&gt; Connection of up to two sampling hoods</li> <li>&gt; Total gas flow measurement with emission calculation</li> <li>&gt; Internal temperature stabilisation with heating and gas sample drying</li> <li>&gt; Ambient temperature • Ambient Pressure • Internal data storage</li> <li>&gt; Data communication: LAN • Data storage on USB • Analogue Current (4-20mA) with separate converter module • Remote UMTS Network with separate service package</li> <li>&gt; Time resolution 60 s (internal 1s)</li> <li>&gt; Power connection: 24V DC, max. 120W</li> <li>&gt; Size 66 x 40 x 24 cm<sup>3</sup> • Weight 25 kg • Display 5" • IP64 for Outdoor use • With sun roof</li> <li>&gt; Included: Particle Filters • Gas Filters • 25 m Plastic tubing (background line)</li> <li>&gt; Mobile UMTS internet connection option included</li> <li>&gt; Patent applied: PCT/EP2024/087231</li> </ul>		<p>REQUIRED ARTICLES: EXTERNAL POWER SUPPLY 24 V / 5 A IP67 [ACC-PWR24-5A-IP] • SAMPLING HOOD [WGA-HOOD-RENT-1M]</p> <p>RECOMMENDED ARTICLES: SAMPLING LINE HEATING [WGA-LHEAT-5M-RENT-1M]</p>	<b>IMAGE COMING SOON!</b>	•
WGA-RENT-1Y	<p>RENTAL WASTEWATER GAS ANALYSER - WGA 020 - PER YEAR</p> <ul style="list-style-type: none"> <li>&gt; Gas measurements: N2O • CH4 • CO2 • O2</li> <li>&gt; Measurement Range N2O: 0 - 1000 ppm • CH4: 0 - 1000 ppm • CO2: 0 - 10 % • O2: 0 - 20%</li> <li>&gt; Detection Limit (approximately) N2O: 0.5 ppm • CH4: 5 ppm • CO2: 50 ppm</li> <li>&gt; Emission Rate sensitivity N2O: 0.8 mg/m<sup>2</sup>/h • CH4: 3 mg/m<sup>2</sup>/h • CO2: 84 mg/m<sup>2</sup>/h</li> <li>&gt; For measurements of (greenhouse-) gas emissions from wastewater treatment plants</li> <li>&gt; Connection of up to two sampling hoods</li> <li>&gt; Total gas flow measurement with emission calculation</li> <li>&gt; Internal temperature stabilisation with heating and gas sample drying</li> <li>&gt; Ambient temperature • Ambient Pressure • Internal data storage</li> <li>&gt; Data communication: LAN • Data storage on USB • Analogue Current (4-20mA) with separate converter module • Remote UMTS Network with separate service package</li> <li>&gt; Time resolution 60 s (internal 1s)</li> <li>&gt; Power connection: 24V DC, max. 120W</li> <li>&gt; Size 66 x 40 x 24 cm<sup>3</sup> • Weight 25 kg • Display 5" • IP64 for Outdoor use • With sun roof</li> <li>&gt; Included: Particle Filters • Gas Filters • 25 m Plastic tubing (background line)</li> <li>&gt; Mobile UMTS internet connection option included</li> <li>&gt; Patent applied: PCT/EP2024/087231</li> </ul>		<p>REQUIRED ARTICLES: EXTERNAL POWER SUPPLY 24 V / 5 A IP67 [ACC-PWR24-5A-IP] • SAMPLING HOOD [WGA-HOOD-RENT-1Y]</p> <p>RECOMMENDED ARTICLES: SAMPLING LINE HEATING [WGA-LHEAT-5M-RENT-1Y]</p>	<b>IMAGE COMING SOON!</b>	•
WGA-HOOD-RENT-1M	<p>RENTAL WASTEWATER GAS ANALYSER - SAMPLING HOOD - PER MONTH</p> <ul style="list-style-type: none"> <li>&gt; Stainless steel sampling hood to collect gas emissions on wastewater basin</li> <li>&gt; Self-floating with four fenders</li> <li>&gt; Aluminium holding frame • flexible connection to hood • up to 25 cm water height adjustment</li> <li>&gt; Aluminium frame for mounting on railings</li> <li>&gt; 5m sampling line 25 mm outer diameter (other lengths on request)</li> </ul>	Price per unit. Optional second unit available.		<b>IMAGE COMING SOON!</b>	•
WGA-HOOD-RENT-1Y	<p>RENTAL WASTEWATER GAS ANALYSER - SAMPLING HOOD - PER YEAR</p> <ul style="list-style-type: none"> <li>&gt; Stainless steel sampling hood to collect gas emissions on wastewater basin</li> <li>&gt; Self-floating with four fenders</li> <li>&gt; Aluminium holding frame • flexible connection to hood • up to 25 cm water height adjustment</li> <li>&gt; Aluminium frame for mounting on railings</li> <li>&gt; 5m sampling line 25 mm outer diameter (other lengths on request)</li> </ul>	Price per unit. Optional second unit available.		<b>IMAGE COMING SOON!</b>	•

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WGA-LHEAT-5M-RENT-1M	RENTAL WASTEWATER GAS ANALYSER - SAMPLING LINE HEATING 5 M - PER MONTH > SAMPLE LINE HEATING for 25mm tubing > Self regulating heating to avoid water condensation at cold temperatures > Tubing isolation • Deactivation regulator at high temperatures > Separate power box	Price per unit. Optional second unit available.		 <p><b>IMAGE COMING SOON!</b></p>
WGA-LHEAT-5M-RENT-1Y	RENTAL WASTEWATER GAS ANALYSER - SAMPLING LINE HEATING 5 M - PER YEAR > SAMPLE LINE HEATING for 25 mm tubing > Self regulating heating to avoid water condensation at cold temperatures > Tubing isolation • Deactivation regulator at high temperatures > Separate power box	Price per unit. Optional second unit available.		 <p><b>IMAGE COMING SOON!</b></p>

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<b>SHIPPING / PACKING CUSTOMS (REGULAR)</b>					
SHIP-D-54	SHIPPING TO GERMANY - SIZE 4, including shipping insurance	> 40 kg e.g. OPENPATH, WGA			•
SHIP-EU-54	SHIPPING TO EU COUNTRIES - SIZE 4, including shipping insurance	> 40 kg, large Size EU countries excl. Germany e.g. OPENPATH, WGA			•
SHIP-W1-54	SHIPPING TO WORLD 1 DISTANCE COUNTRIES - SIZE 4, including shipping insurance, export custom documents	> 40 kg, large size incl. export customs, Europe excl. EU e.g. OPENPATH, WGA			•
SHIP-W2-54	SHIPPING TO WORLD 2 DISTANCE COUNTRIES - SIZE 4, including shipping insurance, export custom documents	> 40 kg, large size incl. export customs, non-Europe countries e.g. OPENPATH, WGA			•

# Product overview of Airyx GmbH



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