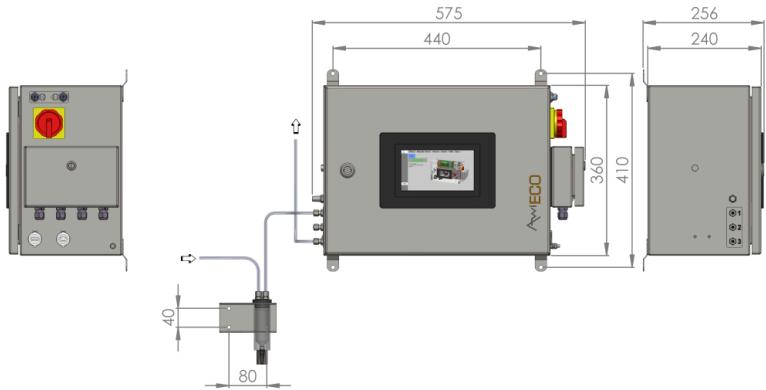


TECHNICAL DATA AWIECO

Subject to technical changes (12.1)

AWITE BIOENERGIE GMBH | GRÜNSEIBOLDSDORFER WEG 5 | D - 85416 LANGENBACH
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AWITE GAS ANALYSIS SYSTEM

GENERAL DATA		AWIECO	
Installation dimensions (WxHxD in mm)		575x410x259	
Weight		≤ 18 kg	
OPERATION CONDITIONS			
Ambient Conditions	5 – 35 °C / 0 – 80 % relative humidity		
Installation height	≤ 2000 m above NHN		
Protection type	IP 54		
Length of suction pipe	≤ 100 m		
Max. gas inlet pressure	20 mbar rel. (optional 400 mbar or up to 50 bar)		
Relative gas humidity	≤ 100 %		
POWER SUPPLY			
Rated input voltage	100 – 240 VAC		
Input voltage range	85 – 265 VAC (Derating < 90 VAC: 2,5 %/Kelvin)		
Frequency range	50 – 60 Hz		
Power consumption ¹	≤ 30 W		
Power supply unit	24 VDC / 5 A		
AwiProtect	over and low voltage protection, overcurrent protection		
SENSOR SYSTEM			
SENSOR ²	MEASURING PRINCIPLE	MEASURING RANGE	REPEATABILITY ³
Methane	infrared 2-beam sensor	thermostated, pressure compensation	0 – 100 Vol.-% ± 0,1%
Carbon dioxide	infrared 2-beam sensor	thermostated, pressure compensation	0 – 100 Vol.-% ± 0,1%
Carbon monoxide	infrared 2-beam sensor	thermostated, pressure compensation	0 – 100 Vol.-% ± 0,8%
Oxygen	electrochemical	pressure compensation	0 – 25 Vol.-% ± 0,25%
Hydrogen sulfide	electrochemical	pressure compensation	0 – 20 ppm ± 2,5%
			0 – 200 ppm / 0 – 500 ppm ± 1,3%
			0 – 1.500 ppm / 0 – 3.000 ppm / 0 – 5.000 ppm / 0 – 10.000 ppm ± 1,0%

1 Values may differ, see nameplate Analysis system

2 Configurable as required

3 determined at the calibration point, given in % from upper measuring range value

PROCESS CONNECTION		SOFTWARE FEATURES	
Hose screw connection, stainl. steel 4/6 mm	standard	Display of measurement history	graphic / tabular
Pipe screw connection, stainl. steel 6 mm VA-pipe	optional	Extensive data storage	4GB microSD card
Hose screw connection, stainl. steel 1/8"/ 1/4"	optional	DATA INTERFACES	
Pipe screw connection, stainl. steel 1/4" VA-pipe	optional	Analogue outputs 4 - 20 mA	analog output feed through terminal
NUMBER OF MEASURING POINTS		Ethernet (optional)	Ethernet/IP - I/O adapter (slave) PROFINET - I/O device (slave) Modbus TCP slave ProcessView AwiView TCP Socket VNC
AwiECO	1	RS232 / RS485 (optional)	Modbus RTU slave 1 x M12 connector
AwiECO special version with 2 H2S-sensors	2	Profibus DP slave (optional)	2 x M12 connector
Connection for discharge of exhaust air		USB (optional)	1 x Type A
MAX. NUMBER OF DAILY MEASUREMENTS		CERTIFICATION	
AwiECO	50	NRTL TÜV SÜD Mark (UL / CSA 61010-1) Certificate-No. U8 17 12 83160 002	
SAFETY MECHANISM		OPTIONS	
Water sensor		Flow measurement with CH4-measurement and compensation Remote access to gas analysis	
Pressure sensor			
Internal monitoring of leakages (CH4) by concentration measurement (interior) ⁴			
Automatic detection of overloads and temporary switch-off of involved measuring channels to preserve the sensors			
GAS PROCESSING			
Gas filter			
Gas precision pressure regulator	optional		
Condensate trap			
Other pressure control systems	optional		
PLC			
AwiIO electronic module	not extendable		
GAS TRANSMISSION			
Encapsulated analytic valves			
Durable membrane pump			
DISPLAY AND OPERATION			
Panel-PC	7" TFT touch panel 1024x600		

4 Range and kind of monitoring variable according to risk evaluation of the devices



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