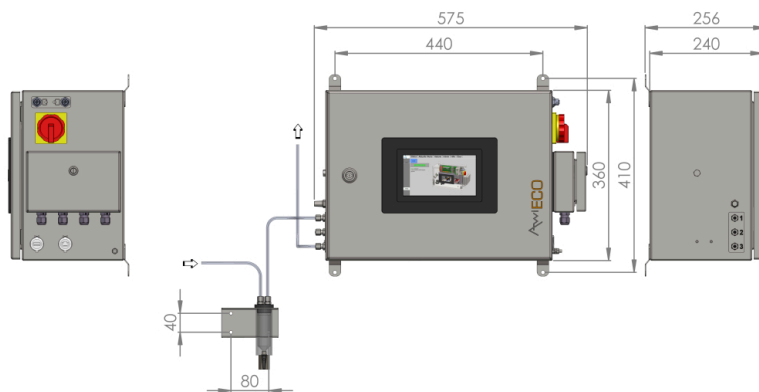


TECHNICAL DATA AWIECO

Subject to technical changes (11.0)



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 temperature		5 – 35 °C
Ambient humidity		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)
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
Line filter		

SENSOR SYSTEM

SENSOR ²	MEASURING PRINCIPLE		MEASURING RANGE	REPEATABILITY ³
Methane	infrared 2-beam sensor	thermostated, pressure compensation	0 – 100 Vol.-%	± 0,2%
Carbon dioxide	infrared 2-beam sensor	thermostated, pressure compensation	0 – 100 Vol.-%	± 0,2%
Carbon monoxide	infrared 2-beam sensor	thermostated, pressure compensation	0 – 100 Vol.-%	± 0,2%
Oxygen	electrochemical	pressure compensation	0 – 25 Vol.-%	± 0,1%
Hydrogen sulfide	electrochemical	pressure compensation	0 – 20 ppm 0 – 200 ppm / 0 - 500 ppm / 0 – 1.500 ppm / 0 – 3.000 ppm / 0 – 5.000 ppm / 0 – 10.000 ppm	± 2,5% ± 1,0%

1 Values may differ, see nameplate Analysis system

2 Configurable as required

3 from upper measuring range value

PROCESS CONNECTION		
Hose screw connection, stainl. steel 4/6 mm		standard
Pipe screw connection, stainl. steel 6 mm VA-pipe		optional
Hose screw connection, stainl. steel 1/8" / 1/4"		optional
Pipe screw connection, stainl. steel 1/4" VA-pipe		optional

NUMBER OF MEASURING POINTS		
AwieCO		1
AwieCO special version with 2 H2S-sensors		2
Connection for discharge of exhaust air		

MAX. NUMBER OF DAILY MEASUREMENTS		
AwieCO		50

SAFETY MECHANISM		
Water sensor		
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		
AwilO electronic module		not extendable

GAS TRANSMISSION		
Encapsulated analytic valves		
Durable membrane pump		

DISPLAY AND OPERATION		
Panel-PC		7" TFT touch panel 1024x600

SOFTWARE FEATURES		
Display of measurement history		graphic / tabular
Extensive data storage		4GB microSD card

DATA INTERFACES			
Analogue outputs 4 – 20 mA	analog output		feed through terminal
Ethernet (optional)	Ethernet/IP – I/O adapter (slave) PROFINET – I/O device (slave) Modbus TCP slave ProcessView Awiview TCP Socket VNC		1 x RJ45 connector
RS232 / RS485 (optional)	Modbus RTU slave		1 x M12 connector
Profibus DP slave (optional)			2 x M12 connector
USB (optional)			1 x Type A

CERTIFICATION	
NRTL TÜV SÜD Mark (UL / CSA 61010-1)	
Certificate-No. U8 17 12 83160 002	

OPTIONS	
Flow measurement with CH4-measurement and compensation	
Remote access to gas analysis	

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



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