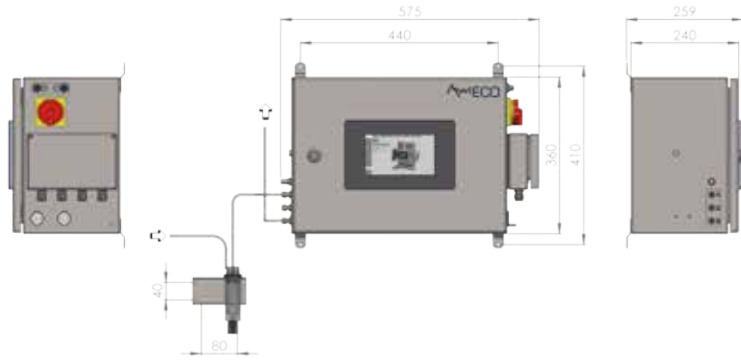




TECHNICAL DATA AWIECO



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*	≤ 30 W
Power supply unit	24 VDC / 5 A
AwiProtect	over and low voltage protection, overcurrent protection
Line filter	
* values might differ, see type plate of analysis system	

SENSOR SYSTEM

SENSOR ¹		MEASURING PRINCIPLE	MEASURING RANGE	ACCURACY ²
Methane	infrared 2-beam sensor	temp.- and pressure compensation	0 – 100 Vol.-%	± 0,2 % Vol.
Carbon dioxide (alternative for methane sensor)	infrared 2-beam sensor	temp.- and pressure compensation	0 – 100 Vol.-%	± 0,2 % Vol.
Oxygen	electrochemical	pressure compensation	0 – 25 Vol.-%	± 0,1 % Vol.
Hydrogen sulfide	electrochemical	pressure compensation	0 – 20 ppm	± 2,5 % Fs
			0 – 200 ppm	± 1,0 % Fs
			0 – 1.500 ppm	± 1,0 % Fs
			0 – 3.000 ppm	± 1,0 % Fs
			0 – 5.000 ppm	± 1,0 % Fs

¹ Configurable as required ² 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-Sensoren 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)*

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

AwiCore electronic module not extendable

GAS TRANSMISSION

Encapsulated analytic valves

Durable membrane pump

DISPLAY AND OPERATION

Panel-PC 7" TFT touch panel 800x480

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

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) 1 x RJ45 connector
PROFINET – I/O device (slave)
Modbus TCP slave
ProcessView
AwiView
TCP Socket
VNC

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. U8131083160001

OPTIONS

Flow measurement with CH₄-measurement and compensation

Remote access to gas analysis



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