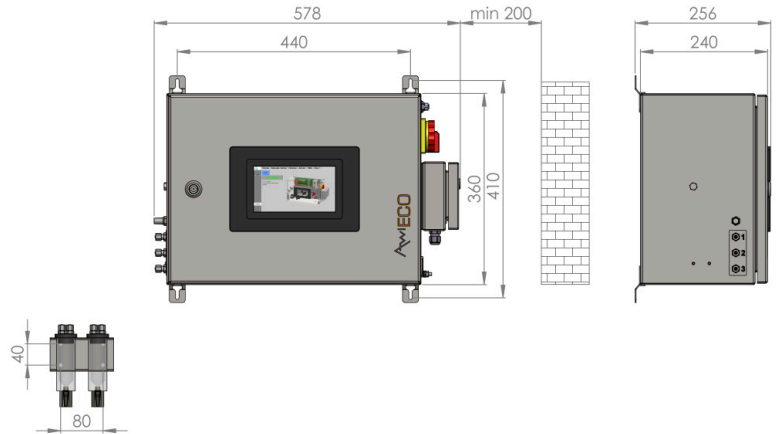


TECHNICAL DATA AWIECO

Subject to technical changes (15.1)



AWITE GAS ANALYSIS SYSTEMS

GENERAL INFORMATION		AWIECO
Installation dimensions (WxHxD in mm)		578 x 410 x 256
Weight		≤ 18 kg

OPERATING CONDITIONS	
Ambient conditions	5 - 35 °C / 0 - 80 % relative humidity
Installation height	≤ 2000 m above standard elevation zero (sea level)
Protection type	IP 54
Length suction line	≤ 100 m
Max. gas inlet pressure	20 mbar rel. (optional 500 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 consumption¹	≤ 30 W
Power supply unit	24 VDC / 5 A
AwiProtect	Over- and undervoltage protection, overcurrent protection
Short Circuit Current Rating (SCCR)	100 A

SENSOR SYSTEM

SENSOR ²	MEASURING PRINCIPLE	MEASURING RANGE	REPEATABILITY ³
Methane	Infrared sensor	0 - 100 Vol.-%	± 0.1 %
Carbon dioxide	Infrared sensor	0 - 100 Vol.-%	± 0.1 %
Carbon monoxide	Infrared sensor	0 - 100 Vol.-%	± 0.8%
Oxygen	electrochemical	0 - 25 Vol.-%	± 0.25 %
Hydrogen sulphide	electrochemical	0 - 20 ppm	± 2.5 %
	electrochemical	0 - 200 ppm / 0 - 500 ppm	± 1.3 %
	electrochemical	0 - 1,500 ppm / 0 - 3,000 ppm / 0 - 5,000 ppm / 0 - 10,000 ppm	± 1.0 %

¹ values might differ, see type plate of analysis system

² configurable and extendable as required

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

PROCESS CONNECTION	
Threaded hose screw connection made of stainless steel 4/6 mm	standard
Threaded stainless steel pipe screw connection 6 mm VA pipe	optional
Threaded hose screw connection made of stainless steel 1/8" / 1/4"	optional
Threaded pipe screw connection, stainless steel 1/4" VA pipe	optional

NUMBER OF MEASURING POINTS	
AwiECO	1
AwiECO special version with 2 H ₂ S-sensors	2
Connection for the discharge of exhaust air into the open air	

MAXIMUM NUMBER OF DAILY MEASUREMENTS	
AwiECO	50

SAFETY DEVICES	
Water sensor	
Pressure sensor	
Internal monitoring of leakages (CH ₄) by concentration measurement (interior) ⁴	
Automatic overload detection and temporary shutdown of measuring channels for protecting the sensors	

GAS PROCESSING	
Gas filter	
Gas precision pressure regulator	optional
Condensate traps	
Additional pressure control systems	optional

SPS	
AwiIO electric module	not extendable

GAS TRANSMISSION	
Encapsulated analysis valves	
Durable diaphragm pump	

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

SOFTWARE FEATURES	
Display of the measured value progressions	Graphical / tabular
Endless data storage	4GB microSD card

DATA INTERFACES	
Analogue outputs	Analogue output 4 x 4 - 20 mA
AwiRemote (optional)	VNC ProcessView
Ethernet (optional)	Modbus TCP Slave TCP Socket AwiView AwiRemote
Ethernet/IP (optional)	Ethernet/IP - I/O adapter (slave)
ProfiNet (optional)	ProfiNet RT - I/O device (slave)
Profibus (optional)	Profibus DP slave
RS232 / RS485 (optional)	Modbus RTU Slave
USB (optional)	AwiView

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

OPTIONS	
Flow measurement with CH ₄ -measurement and compensation	



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