







AWITE GAS ANALYSIS SYSTEMS

GENERAL DATA	AWIFLEX COOL+	AWIFLEX COOL+ XL			
Installation dimensions (WxHxD in mm)	564×700×268	965x890x269			
Weight	≤ 34 kg	≤ 72 kg			
OPERATION CONDITIONS					
Ambient temperature	5 – 35 °C				
Ambient humidity	0 – 80 % relative humidity				
Installation height	≤ 2000 m above NHN				
Protection type	IP 54				
Lengths of suction pipe	≤ 100 m				
Max. gas inlet pressure	20 mbar rel. (optional 400 mbar)				
Rel. 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*	≤ 80 W	≤ 160 W			
Power supply unit	24 VDC / 5 A	24 VDC / 10 A			
AwiProtect	Over and low voltage protection, overcurrent protection				
Line filter					

^{*} values might differ, see type plate of analysis system

SENSOR SYSTEM

SENSOR ¹	MEA	SURING PRINCIPLE	MEASURING RANGE	REPEATABILITY ²
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	± 2,5%
		_	0 – 200 ppm	± 1,0%
		_	0 – 1.500 ppm	± 1,0%
		_	0 – 3.000 ppm	± 1,0%
		_	0 – 5.000 ppm	± 1,0%
		_	0 – 10.000 ppm	± 1,0%
		_	0 – 20.000 ppm³	± 1,0%
		_	0 – 50.000 ppm³	± 1,0 %
Hydrogen	electrochemical	pressure compensation	0 – 2.000 ppm	± 1,0 %
		_	0 – 5.000 ppm	± 1,0 %
		_	0 – 10.000 ppm	± 1,0 %
		_	0 – 20.000 ppm	± 1,0 %
		_	0 – 50.000 ppm	± 1,0%
		_	0 – 100 Vol% ³	± 1,0 %
Hydrogen	thermal conductivity	temp and pressure compensation	0 – 100 Vol%	± 0,2%

¹ configurable and extendable as required ² from upper measuring range value ³ with dilution and only in conjunction with auto-calibration

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 storaç	ge	4GB microSD ca	ard	
Hose screw connection, stainl. steel 1/8"/1/4"	optional	DATA INTERFACES				
Pipe screw connection, stainl. steel 1/4" VA-pipe	optional	Group fault	potential-free		1 x relay	
NUMBER OF MEASURING POINTS		Group radit	poternarinee		(Uout: max. 250V	
AwiFLEX Cool+	1-4		_		AC/DC @ 6A)	
AwiFLEX Cool+ XL	1-9	Alarm outputs	potential-free		n x relay	
External measuring point switch-over AwiSamplex for additional measuring points		(optional)			(Uout: max. 250V AC/DC @ 6A)	
Connection for discharge of exhaust air into the open or re-feeding of measuring gas into process pipe (relative pressure < 20 mbar)		Analogue outputs 4 – 20 mA (optional)	analog output		feed-through terminal	
Connection for removal of condensate in provided condensate container		Ethernet (optional)	PROFINET – I/O	O adapter (slave) O device (slave)	1 x RJ45 connector	
MAXIMUM NUMBER OF DAILY MEASUREMENTS			Modbus TCP slave ProcessView			
AwiFLEX Cool+	50, continuous		AwiView			
AwiFLEX Cool+ XL	50, continuous		TCP Socket			
SAFETY MECHANISM			VNC			
Water sensor			_			
Pressure sensor			Modbus RTU sl	slave 1 x M12 connecto		
Internal monitoring of leakages (CH ₄) by concentration measurement (interior)* Automatic detection of overloads and temporary switch-off of involved measuring channels to preserve the sensors		(optional) Profibus DP slave		2 x M12 connecto		
		(optional) USB	-		1 x type A	
Temperature monitoring (interior)		(optional)			. A Gpo / t	
Gas warning sensor for interior of the device AwiFLEX Cool+ XL	optional	More interfaces and	transfer protocols	on request		
GAS PROCESSING		CERTIFICATION				
Gas filter		NRTL TÜV SÜD Mark	(UL / CSA 61010-	-1)		
Gas precision pressure regulator	optional	Certificate No. U8131083160001				
Condensate trap	ориона					
Gas cooler AwiCool		OPTIONS				
Other pressure control systems	optional	Combi package AwiDESULF for microbiological desulfurization				
PLC		incl. compressor, control valves and controller output				
AwiCore elektronic module	extendable	FuzzyLogic control for controlling valves, fans etc. Integration of external sensors (analogue and digital), e.g. temperature,				
GAS TRANSMISSION	2.10.100010					
		pressure, gas amoun				
Encapsulated analytic valves		Calculation of calorifi		w, CH ₄ - and humid	ity compensation etc	
Durable membrane pump		Automatic calibration	tomatic calibration feature			
DISPLAY AND OPERATION		Remote access to ga				
Panel-PC	7" TFT touch	Monitoring of measu	ring gas pump with	n switch mechanism	n to redundant pum	
	panel 800x480	Automatically known				

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Technical changes reserved (series 10 - version 05.00)

