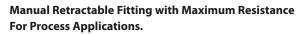
Process Analytics

SensoGate Retractable Fittings



SensoGate WA 133 M





Variable and Affordable

Based on the proven SensoGate modular design principle, the WA 133 M retractable fitting is perfectly suited to applications that do not require completely automated control with central media routing but still want to make use of superior SensoGate technology.

Custom Solutions

The design of the cost-efficient
SensoGate WA 133 models is scalable
to meet requirements; when placing
an order, customers simply state the
types of connections and functions
the retractable fitting must have.
Every design permits the sensor to be
manually serviced or replaced. This
can easily be done under process pressures as high as 6 bar.

The fitting adapts perfectly to the application and can even be adapted later to changed conditions.

Easy Retrofits

If a further process connection, for example, is required at a future date, it can be easily retrofitted by simply replacing the relevant module.

A switch to electrodes with a store of liquid electrolyte is possible – one big advantage of the SensoGate modular design. The patented lock-gate function, i.e., the reliable shut-off to the process even during movement, is always active. This is a one-of-a-kind functionality for retractable fittings.

Facts and Features

- Compact, smooth, and dirt-resistant design
- Minimum maintenance costs and maximum flexibility thanks to completely modular design
- Easy gasket replacement with split calibration/rinsing chambers
- Increased life and reduced gasket wear
- ATEX approval II 1 GD c II for the complete fitting
- Cost reduction by simple installation, operation and maintenance
- Very high availability
- Protective rinsing of gaskets for long life
- SensoLock for high safety of operation
- Integrated check valves and limit switches

- Quick and easy replacement of calibration chamber and immersion tube
- All maintenance work possible on site
- Cyclone rinsing for optimum cleaning effect
- Superior sensor immersion depth
- Standard sensor length (225 mm) even for large immersion depths
- Multiple process connections available
- Flange version with scraper ring
- Modular design allows direct replacement of wetted materials PEEK, PVDF, PP, 1.4571, Hastelloy.
- Plastic versions with high pressure and temperature resistance due to carbon-fiber-reinforced material
- Special version for sensors with pressurizable liquid electrolyte



SensoGate WA 133 M

Specifications

Permissible process pressure and	6 bar (at 0 40 °C)				
temperature during movement	6 bar (0 40 °C), falling linearly to 3 bar (100 °C)				
	3 bar (max. 1 hour) at 135 °C				
Permissible pressure for probe control	4 7 bar				
Permissible rinsing pressure and temperature	6 bar (at 5 90 °C)				
Ambient temperature	-10 +70 °C				
Protection	IP 66				
Housing material	Stainless steel A2/PP or PEEK				
Sensors	with solid electrolyte	Ø 12 mm, length 225 mm with temperature detector, thread PG 13.5			
	with liquid electrolyte	Ø 12 mm, length 250 mm with temperature detector			
Process connections	Flanges, EN 1092-1	DN 32 100			
	Flanges, ANSI B 16.5	1 ½" to 3"			
	Flange bushings, suitable for sight glasses acc. to DIN 3237 Part 2	from DN 40			
	Loose flange 1.4571 for flat glass flange	DN 40/DN 50			
Connections	Inlet	G 1/8" female thread with hose coupling for hose; outer Ø 6 mm, inner Ø 4 mm			
	Outlet	G 1/8" female thread with hose coupling for hose; outer Ø 8 mm, inner Ø 6 mm			
	For pressurized sensors	Hose connection NW 6 mm, pressure in calibration chamber 0.5 1 bar above process pressure (max. 7 bar)			
Immersion depths/dimensions	See dimension drawings				
Wetted materials	PEEK (natural)				

Specifications for Use in Hazardous Locations

KEMA 04ATEX4035X EU Type Examination Certificate ATEX marking II 1 GD c II Ambient temperature -10 ... +70 °C Process pressure Max. 6 bar 0 ... 120 °C (plastic)

Process temperature

Special conditions None

Process Analytics

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Product Line

Process Retractable Fitting	WA 133 M -								
Explosion protection	ATEX Zone 0 X								Ī
	Without								
Sensor	Sensor, Ø 12 mm with PG 13.5								
	pH sensor, Ø 12 mm, with pressurization 1								
Gasket material	FKM A								
	EPDM B								
	EPDM – FDA E								
	FKM – FDA F								
	FFKM-FDA H								
	FFKM K								
Wetted materials*	PTFE	R							
Process connection	Flange, loose, 1.4571, PN10/16, DN 32	Е	3 0						
	Flange, loose, 1.4571, PN10/16, DN 40	Е	3 A						
	Flange, loose, 1.4571, PN10/16, DN 50	Е	3 1						
	Flange, loose, 1.4571, PN10/16, DN 65	Е	3 2						
	Flange, loose, 1.4571, PN10/16, DN 80	Е	3						
	Flange, loose, 1.4571, PN10/16, DN 100 B 4 Flange, loose, ANSI 316, 150 lbs, 2" D 1								
	Flange, loose, ANSI 316, 150 lbs, 2"	С) 1						Ī
	Flange, loose, ANSI 316, 150 lbs, 2 1/2"	0	2						
	Flange, loose, ANSI 316, 150 lbs, 3"	0	3						
	Flange, loose, ANSI 316, 150 lbs, 3 1/2"	0	4						
	Fitting, DIN 3237-2, PN 16, DN 40	Т	- A						Ī
	Fitting, DIN 3237-2, PN 16, DN 50	Т	1						
	Flange, loose, 1.4571, DN 40 for flat glass flange	ι	JA						Ī
	Flange, loose, 1.4571, DN 50 for flat glass flange	ι	J 1						
Immersion depth	Short			Α					
	Long			В					
Electrical limit signal	Without				Α				
	With				В				
Connection, rinse medium	Inlet with PVF hose coupling NW 4/6, outlet with PVF hos	e cou	plin		3				
	NW 6/8, outlet hose made of PTFE, 3 m								
Housing material	Stainless steel / PP (< 6 bar operating pressure)					1			
	Stainless steel / PEEK (< 10 bar operating pressure)					2			
Special variant	Without						0	0)
	Equipped with special grease (provided by customer)								1
	Customer-specific special datasheet								F

Further configurations of these options may be available on request. \\

 $^{{}^*\,}Material\,combinations:\,process-wetted\,part\,of\,calibration\,chamber\,/\,rinse-wetted\,part\,of\,calibration\,cha$



SensoGate WA 133 M

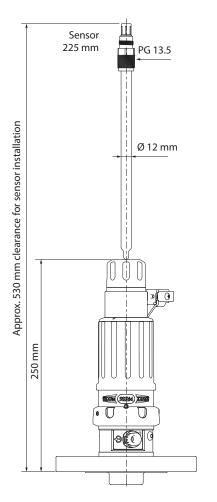
Product Line

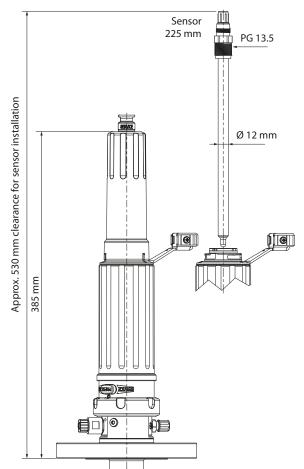
Accessories			Order No.			
Service set	Basic		ZU 0680			
nsor spanning wrench, 19 mm			ZU 0647			
Bellows (version for liquid-electrolyte sensors)			ZU 0739			
Protective cap (version for sensors with polymer electrolyte)			ZU 0759			
Air supply for pressurized sensors, 0.5 4 bar			ZU 0670/1			
Air supply for pressurized sensors, 1 7 ba	ar		ZU 0670/2			
Hose, 20 m (extension for ZU 0670)			ZU 0713			
Electrical limit switch with plug-in adapte	r		ZU 0859			
Check Valve			RV01-			
Housing material, valve body	Stainless	steel 1.4404	н			
	PEEK		E			
Gasket material	FKM		А			
	EPDM		В			
	FFKM		C			
	FKM FDA	A	F			
	EPDM F	DA .	E			
	FFKM FD	DA .	Н			
Inlet connection, female thread	G1⁄4			4		
	G%			8		
Outlet connection, male thread	G¼			4		
	G1/8			8		
Gaskets	Set	Contact (process/rinse medium)	Order No.			
	A/1	FKM	ZU 1022/1			
	A/2	FKM / FKM	ZU 1022/2			
	B/1	EPDM	ZU 1023/1			
	B/2	EPDM / EPDM	ZU 1023/2			
	E/1	EPDM FDA	ZU 1024/1			
	E/2	EPDM FDA / EPDM	ZU 1024/2			
	H/1	FFKM FDA	ZU 1026/1			
	H/2	FFKM FDA / FFKM FDA	ZU 1026/2			
	K/1	FFKM	ZU 1027/1			
	K/2	FFKM / FFKM	ZU 1027/2			
Spare Parts			Order No.			
Immersion tube, short	PTFE		ZU 1032			
Immersion tube, long	PTFE		ZU 1033			

SensoGate Retractable Fittings

Dimension Drawings

Installation dimensions WA 133 M Short immersion depth for sensors with solid electrolyte Installation dimensions WA 133 M Long immersion depth for sensors with solid electrolyte



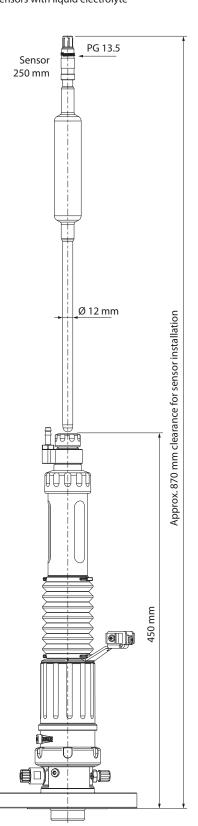




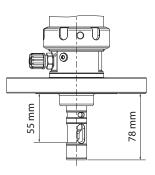
SensoGate WA 133 M

Dimension Drawings

Installation dimensions WA 133 M Sensors with liquid electrolyte



SensoGate WA 133 M Loose flange process connection DN 32 ... 100 ANSI 316, 1 ½" ... 3" Short immersion depth



SensoGate WA 133 M Loose flange process connection DN 32 ... 100 ANSI 316, 1 ½" ... 3" Long immersion depth

