

07 Sensors | Level Transmitters



		Type 8175	Type 8176	Type 8177	Type 8178	Type 8136	Type 8137	Type 8138	Type 8185	Type 8186	Type 8326	
												
Fluidic characteristics												
Sensor principle		Ultrasonic				Radar			Guided Microwave		Hydrostatic	
Measuring range	Liquids	0 – 10 m	0.25 – 5 m	0.4 – 8 m	0.6 – 15 m	0.05 – 20 m	0.05 – 30 m	0.05 – 20 m	0.08 – 32 m	0.08 – 4 m	0 – 40 bar	
Vessel pressure		0 – 2 bar	-0.2 – 2.0 bar	-0.2 – 2.0 bar	0 bar	Vacuum – 3 bar	Vacuum – 40 bar	Vacuum – 16 bar	Vacuum – 40 bar	Vacuum – 16 bar	Depending on pressure range	
Process temperature		-40 – 80°C (176°F)	-40 – 80°C (176°F)	-40 – 80°C (176°F)	-40 – 80°C (176°F)	-40 – 80°C (176°F)	-40 – 130°C (266°F)	-40 – 150°C (302°F)	-30 – 150°C (302°F)	-40 – 150°C (302°F)	-30 – 105°C (221°F)	
Wetted parts												
Seal		FKM or EPDM	EPDM	EPDM	EPDM	FKM	Klingsil, FKM	EPDM	FKM	FKM	FKM, EPDM	
Body		PVDF	PVDF	PVDF	SS	PVDF	SS	SS	SS	SS	SS	
Accuracy		± 3 mm	± 4 mm	± 4 mm	± 6 mm	± 5 mm	± 3 mm	± 3 mm	± 3 mm	± 3 mm	< 0.15 % of span	
Process connection		G or NTP 2"	G or NPT 1 ½"	G or NPT 1 ½"	Mounting strap	G or NPT 1 ½", mounting strap	G or NPT 1 ½", flange	Clamp2", varivent, flange	G or NTP ¾" or 1"	Clamp2" or DIN 11851	G or NTP 1", G1" (EHEDG)	
Influence coating		High	High	High	High	High	High	High	Less	Less	Less	
Influence steam / condensate		High	High	High	High	No	No	No	No	No	No	
Avoid		Dust, foam, vacuum	Dust, foam, vacuum	Dust, foam, vacuum	Dust, foam, vacuum	Foam	Foam	Foam	Coating	Coating		
Electrical characteristics												
Basic function		Transmitter	Transmitter	Transmitter	Transmitter	Transmitter	Transmitter	Transmitter	Transmitter	Transmitter	Transmitter	
Wiring		3-wire	2-wire	2-wire	2-wire	2-wire	2-wire	2-wire	2-wire	2-wire	2-wire	
Output		4 - 20 mA Relay	4 - 20 mA HART	4 - 20 mA HART	4 - 20 mA HART	4 - 20 mA HART	4 - 20 mA HART	4 - 20 mA HART	4 - 20 mA HART	4 - 20 mA HART	4 - 20 mA	
Echo filtration		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No influence	
Display		Yes	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
Approval			ATEX	ATEX	ATEX	ATEX	ATEX	ATEX	ATEX	ATEX		
Specifics		Compact-, Wall- and Panel version	Compact version	Compact version	Compact version	Compact version	Compact version	Compact version	Compact version	Compact version	Compact version	