

ADZ products made in Germany

Industrial Transmitter



Model	SML	SIL	SMH	SMF
STANDARDS / APPROVALS CE-Marking: EG-Directive ATEX Standard	89/336/EWG	89/336/EWG	89/336/EWG	89/336/EWG
APPLICATIONS	Hydraulics Pneumatics Plant engineering Engineering Refrigeration	Hydraulics Pneumatics Plant engineering Engineering	Hydraulics Pneumatics Test stand design Water power engineering Diesel engine technology	Food industry Dosage pumps Sanitary engineering Chemical industry
PRESSURE RANGE Pressure range*	-1...0 bar 0...1000 bar	0...10 mbar 0...40 bar	> 0...1000 bar 0...4000 bar	0...200 bar
Temperature range Vacuum-/relative- and absolute pressure	• •	• ≥ 1 bar		•
ELECTRICAL PARAMETER Output signal*	4...20 mA 0...10 V _{DC} 0...5 V _{DC} 1...5 V _{DC} 0,5...4,5 V _{DC ext}	4...20 mA 0...10 V _{DC} 1...5 V _{DC} 0,5...4,5 V _{DC ext}	4...20 mA 0...10 V _{DC} 1...5 V _{DC} 0,5...4,5 V _{DC ext}	4...20 mA 0...10 V _{DC} 1...5 V _{DC} 0,5...4,5 V _{DC ext}
Max. supply voltage* U _s [V _{DC}]	32 (5)	32 (5)	33 (5)	33 (5)
ACCURACY Accuracy @ RT (%) Option (%)	0,50 0,25	1,00 0,50	0,50 (1,00) 0,25 (0,50)	0,50 0,25
TEMPERATURE RANGE Medium T [°C] Ambience T [°C]	-40...125 -40...105	-40...85 -40...85	-40...125 -40...105	-30...100 -30...100
MECHANICAL PARAMETER Parts in contact with the measuring medium* Housing Connection* Connector* IP system of protection* Overall length* mm Option	Stainless steel Stainless steel G1/4A Form E MVS/C IP65 (67) ~ 85	Silicon Stainless steel G1/4A Form E MVS/C IP65 (67) ~ 85	Stainless steel Stainless steel M18x1,5 male MVS/A IP65 (67) ~ 105	Stainless steel (316L) Stainless steel G1/2 MVS/C IP65 (67) ~ 100

* other upon request • possible

Mobil Hydraulics	Level Sensor	Ex Version Transmitter	Ex	Pressure Switch	Level Sensor	
						
SMO	PS1	SMX	SMX2	DPSX9U	DPSX9I	PSX2
89/336/EWG	89/336/EWG	89/336/EWG Zone 1 EN 50014 EN 50020	94/9/EG Zone 0 and 1 EN 60079-0 EN 60079-11 EN 60079-26	94/9/EG Zone 0 and 1 EN 60079-0 EN 60079-11	94/9/EG Zone 0 and 1 EN 60079-0 EN 60079-11	94/9/EG Zone 0 and 1 EN 60079-0 EN 60079-11 EN 60079-26
Automotive industry Braking systems Hydraulics Diesel engine technology Natural gas engines	Tanks, vessels Water systems Rivers, lakes Weirs	Chemical industry Oil and gas industry Food industry Plant engineering Automation technology	Chemical industry Oil and gas industry Food industry Plant engineering Automation technology	Automotive industry Environmental engineering Refrigeration Engineering Automation technology	Automotive industry Environmental engineering Refrigeration Engineering Automation technology	Tanks, vessels Water systems
0...4 bar 0...4000 bar	0...1 mWS 0...250 mWS	0...1 bar 0...2000 bar	0...10 mbar 0...2000 bar • •	0...5 mbar 0...2000 bar • •	0...5 mbar 0...2000 bar • •	0...1 mWS 0...250 mWS
4...20 mA 0...10 V _{DC} 1...5 V _{DC} 0,5...4,5 V _{DC ext}	4...20 mA 0...10 V _{DC} 1...5 V _{DC}	4...20 mA	4...20 mA	0...10 V	4...20 mA	4...20 mA
33 (5)	33	27	27	32	32	27
0,50 0,25	0,50 (1,00) 0,25 (0,50)	0,50 0,25	0,50 (1,00) 0,25 (0,50)	0,50 (1,00) 0,25 (0,50)	0,50 (1,00) 0,25 (0,50)	0,50 (1,00) 0,25 (0,50)
-40...125 -40...105	-40...85 -40...85	-20...85 -20...85	-20...60 (-40...100) -20...60 (-40...85)	-40...100 -40...85 (-40...70)	-40...100 -40...85 (-40...70)	-20...60 (-40...100) -20...60 (-40...85)
Stainless steel Stainless steel G1/4A Form E M12x1 IP65 (67) ~ 70 Load-Dump module Restrictor	Stainless steel/ Silicon Stainless steel without Cable IP68 ~ 135	Stainless steel Stainless steel G1/4A Form E MVS/A IP65 (67) ~ 102	Stainless steel/ Silicon Stainless steel G1/4A Form E M12x1 IP65 (67) ~ 100	Stainless steel/ Silicon Stainless steel G1/4A Form E Cable IP67 ~ 80 (~ 66)	Stainless steel/ Silicon Stainless steel G1/4A Form E Cable IP67 ~ 80 (~ 66)	Stainless steel/ Silicon Stainless steel without Cable IP68 ~ 180

Intelligent Transmitter	Compact Design			Precision Transmitter	High Temperature Transmitter	
						
SMC	SIS	SME	SMS	SHP	SKL	SKE
89/336/EWG	89/336/EWG	89/336/EWG	89/336/EWG	89/336/EWG	89/336/EWG	89/336/EWG
Automotive industry Air conditioning Hydraulics Agricultural engineering Automation technology	Hydraulics Pneumatics Plant engineering Engineering Automotive industry	Automotive industry Hydraulics Pneumatics Plant engineering	Automotive industry Hydraulics Pneumatics Engineering	Medical technology Hydraulics Pneumatics Test stand design Engineering	Automotive industry Hydraulics Pneumatics Plant engineering Engineering	Automotive industry Hydraulics Pneumatics Automation technology Chemical industry
0...1 bar 0...2000 bar	0...600 mbar 0...40 bar • ≥ 1 bar	0...1 bar 0...400 bar	0...4 bar 0...600 bar	0...10 mbar 0...2000 bar • •	0...1 bar 0...2000 bar	0...1 bar 0...2000 bar
CANopen 2.0 A	4...20 mA 0...10 V _{DC} 1...5 V _{DC} 0,5...4,5 V _{DC out}	0...5 V _{DC} 0,5...4,5 V _{DC out}	4...20 mA 0...10 V _{DC} 0...5 V _{DC} 1...5 V _{DC} 0,5...4,5 V _{DC out}	4...20 mA 0...10 V _{DC}	4...20 mA 0...10 V _{DC} 1...5 V _{DC} 0,5...4,5 V _{DC out}	4...20 mA 0...10 V _{DC} 1...5 V _{DC} 0,5...4,5 V _{DC out}
32	32 (5)	32 (5)	32 (5)	32	32 (5)	32 (5)
0,50 0,25	1,00 0,50	0,50 0,25	0,50 0,25	0,15 0,10	0,50	1,00
-40...125 -40...105	-40...105 -40...85	-40...125 -40...85	-40...125 -40...105	-20...85 -20...85	-40...160 (180) -40...105	-40...180 (200) -40...105
Stainless steel/ Silicon Stainless steel G1/4A Form E M12x1 IP65 (67) ~ 75	Stainless steel/ Silicon Stainl. steel (brass, Al) G1/4A Form E Superseal IP65 (67) ~ 55	Stainless steel Stainless steel M8x1 (M10x1) Cable IP67 ~ 50	Stainless steel Stainless steel G1/4A Form E M12x1 IP65 (67) ~ 50	Stainless steel/ Silicon Stainless steel G1/4A Form E MVS/C IP65 (67) ~ 117	Stainless steel Stainless steel G1/4A Form E MVS/C IP65 (67) ~ 117	Stainless steel Stainless steel G1/4A Form E M12x1 IP65 (67) ~ 120

Temperature + Pressure		Differential Pressure Transmitter		Electronic Pressure Switch
				
TPSE	TPSI	DDPT	DDPTM	DS5
89/336/EWG	89/336/EWG	89/336/EWG	89/336/EWG	89/336/EWG
Hydraulics Pneumatics Refrigeration Heating systems Automation technology	Hydraulics Pneumatics Refrigeration Heating systems Automation technology	Pneumatics Process technology HVAC	Pneumatics Process technology HVAC	Hydraulics Pneumatics Refrigeration Heating systems Automotive industry
0...4 bar 0...600 bar -50...200°C	0...1 bar 0...1000 bar -50...150°C	0...1 mbar 0...50 mbar	0...5 bar 0...1000 bar	0...600 mbar 0...2000 bar
4...20 mA 0...10 V _{DC}	0...10 VDC 0,5...4,5 V _{DC ref} 0,25...4,75 V _{DC ref}	4...20 mA 0...10 V _{DC}	4...20 mA 0...10 V _{DC}	npn / pnp nc / no / window
32	32 (5)	30	28	30
0,50 0,25	0,50 0,25	1,00	1,00	0,50
-40...125 -40...105	-40...125 -40...105	0...50 0...50	0...50 0...50	-40...125 -40...105
Stainless steel Stainless steel M18x1,5 male M16x0,75 IP 67 ~ 87 + overall length	Stainless steel Stainless steel G1/4A Form E M12x1 IP 67 ~ 70	Stainless steel PVC Hose connection Screw terminal IP 65 ~ 100	Stainless steel PVC G1/4A Form E Screw terminal IP 55 (65) ~ 100	Stainless steel Stainless steel G1/4A Form E M12x1 IP 67 ~ 70