

Metal-diaphragm differential pressure switch *Type DPD1T-.../DPD2T-...*

Mechanical single/dual pressure switch
Repeatability $\pm 1.0\%$ at constant temperature

Features

Metal-diaphragm differential pressure switch
 Switching point can be adjusted with corresponding reference unit during operation

Applications

machine and tool engineering,
 autoclaves,
 pump control,
 refrigerant monitoring
 ship building applications



Technical Data

medium-contacting parts:	Stainless steel 17-7PH nickel-faced aluminium O-rings: FKM
Repeatability:	$\pm 1\%$ at constant temperature
Switching rate:	max. 20/min
Temperature range:	$-40\text{ }^{\circ}\text{C} \dots +75\text{ }^{\circ}\text{C}$
System of protection	IP65
Housing:	anodized aluminium
Process connection:	1/8" NPT female thread
Electrical connection:	internal terminal strip (0.5-2.5 mm ²) Standard: WAGO terminal and cable gland M20x1.5; clamping range $\varnothing 5 \dots 11$ mm

Electrical load capacity and hysteresis:	Many microswitch versions with different switching powers and hysteresis are applicable and make it possible to make customized changes.
Weight:	DPD1T-...: approx. 1.6 kg DPD2T-...: approx. 1.7 kg
Switching point adjustment:	Switching point lowers by turning the adjustment screw clockwise.
Inherent safety:	The switches are also applicable for inherent safety applications. Add "Exi" in case of ordering. The following max. values are valid when using those switches: U _{max} = 28 V I _{max} = 50 mA
Approval:	---

Pressure stages

Values shown in red (max. pressure rising) = **max. operating pressure**

* possible operating pressures up to 28 bar. Differential pressure of the adjustment range must not be exceeded.

Pressure stage code	Adjustment range [bar] *		Test pressure [bar] (short time)	Max. hysteresis of the different switches in bar (end of range)	
	rising pressure	lowering pressure		H, GH [bar]	M, GM [bar]
Overpressure					
3SS	0.01 ... 0.2	0.002 ... 0.2	0.7	0.008	0.017
18SS	0.04 ... 1.2	0.03 ... 1.2	4.0	0.022	0.050
80SS	0.14 ... 5.5	0.030 ... 5.4	10.9	0.140	0.320
150SS	0.30 ... 10.3	0.100 ... 10.1	20.0	0.260	0.600

