

# Metal Diaphragm Pressure Switches

## D1T/D2T

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

### Features

- ▶ Metal diaphragm pressure switch
- ▶ Wetted parts welded
- ▶ Direct acting, no friction, high accuracy
- ▶ Approvals: Ex ia, UL, CSA, marine, SIL2/3 (IEC 61508)

### Adjustment ranges

0.005 ... 10.3 bar and  
-0.006 ... -1 bar (Vaccum)

### Applications

Machine and tool engineering,  
Autoclaves, pump control,  
Refrigerant monitoring, chemical industry  
Ship building applications



### Technical Data

Wetted parts:	Stainless steel 17 - 7PH / SS304
Repeatability:	$\pm 1$ % at constant temperature
Switching rate:	max. 20/min
Temperature range:	-40 °C... +75 °C
Protection class:	IP65
Housing:	Top part: aluminium powder coated bottom part: aluminium anodized
Process connection:	1/4" NPT female thread Optional: 1/2" NPT female thread (P2)
Electrical connection:	WAGO terminal and cable gland M20 x 1.5; clamping range $\varnothing$ 5 ... 11 mm

Electrical load capacity and hysteresis:	Many micro switch versions with different switching powers and hysteresis are available and make it possible to make customized changes.
Weight:	D1T-....: approx. 1.0 kg D2T-....: approx. 1.1 kg
Set point adjustment:	Turn the adjustment screw clockwise to decrease the set point
Intrinsically safe:	The switches are also available for intrinsically safe applications. Add "Exi" in case of ordering. Maximum rating according to ATEX: Umax = 28 V Imax = 50 mA
Approval:	---

### Pressure Ranges

Pressure range code	Adjustment range [bar]		Max. operating pressure [bar]	Proof pressure [bar]	Max. hysteresis of switch types in bar (end of range)	
	Increasing press.	Decreasing press.			short term	H, GH [bar]
Overpressure						
2SS	0.005 ... 0.11	0.001 ... 0.11	0.15	0.2	0.004	0.006
3SS	0.012 ... 0.20	0.002 ... 0.196	0.5	0.7	0.004	0.010
18SS	0.050 ... 1.20	0.030 ... 1.20	3.0	4.0	0.010	0.040
80SS	0.300 ... 5.50	0.030 ... 5.30	8.0	10.7	0.110	0.240
150SS	0.500 ... 10.30	0.100 ... 9.90	15.0	20.0	0.180	0.420
Vacuum						
3SS	-0.006 ... -0.20	-0.002 ... -0.196	0.15	0.2	0.004	0.009
18SS	-0.040 ... -1.00	-0.020 ... -0.970	0.5	1.0	0.020	0.060