

**Main Specifications**

▼ **Pressure connection**  
 Material: Brass  
 Thread spec.: G1/4" (F)  
 Other thread specification is available made-to-order

▼ **Adjustable set point range**  
 0.02~1.6MPa  
 For detail please refer to adjustable set point range (Fixed Dead Band) table

▼ **Dead band**  
 Fixed dead band  
 For detail please refer to adjustable set point range (Fixed Dead Band) table

▼ **Applicable fluid**  
 Neutral gas and liquid that compatible with pressure connection

▼ **Operating pressure**  
 0.05~2.5MPa  
 (Based on adjustable set point range)

▼ **Ambient temperature**  
 -30°C~50°C

▼ **Media temperature**  
 0~120°C

▼ **Media viscosity**  
 $< 1 \times 10^{-3} \text{m}^2/\text{s}$

▼ **Vibration resistance**  
 Max. 20m/s<sup>2</sup>

▼ **Protection level**  
 IP65

**Other Specifications**

▼ **Installation**  
 Bottom mount

▼ **Case material**  
 Die casting aluminum

▼ **Measuring elements**  
 Bellow  
 Material: SS316L (Standard), other materials (Optional)

▼ **Switch type**  
 DPDT micro switch

▼ **Switching frequency**  
 10 times/min

▼ **Max. operating pressure**  
 2 / 3MPa  
 (Based on adjustable set point range)

▼ **Repeatability**  
 ≤1%

▼ **Contact rating**  
 AC220V, 6A

▼ **Service life**  
 2,000,000 cycles

▼ **Other requests (Option)**  
 Third party notarized documents  
 Inspection report  
 Tag

**Double Setting Differential Pressure Switch**

**Model: AT520-7DDS**

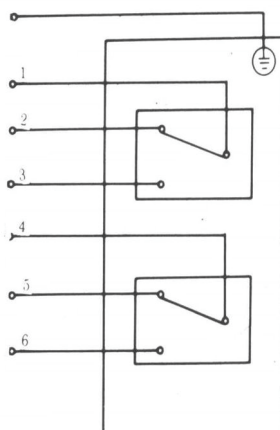
**Introduction**

AT520-7DDS double setting differential pressure switch adopts bellow as sensor, which can be used for neutral liquid and gas. Mainly used in nuclear power, chemical industry, shipping, metallurgy and other industries.



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

**DPDT micro switch working principle**



**Terminal 1-3 / 4-6:**

Open close circuit when differential pressure is increased to setting pressure value

**Terminal 1-2 / 4-5:**

Close circuit when differential pressure is increased to setting pressure value

**Features**

- OEM service
- Adopts DPDT micro switch
- Adjustable set point range 0.02 to 1.6MPa
- Suitable for using in neutral liquid and gas
- Adopts bellow as measuring elements
- Protection level IP65

## Adjustable Set Point Range (Fixed Dead Band) Table (1MPa = 1000kPa)

Model	Adjustable set point range (MPa)	Dead band		Operating pressure*1	Maximum operating pressure* 2 (MPa)	Switching frequency per min	Sensor material		Weight (kg)	Order No.
		Lower limit (MPa)	Upper limit (MPa)				Case	Bellow		
AT520-7DDS	0.02...0.1	0.012	0.015	0.05~1.6	2	10	Brass	SS316L	1.2	0819109
	0.02...0.16	0.012	0.017							0819209
	0.025...0.25	0.015	0.02							0819309
	0.03...0.4	0.02	0.025	0819409						
	0.05...0.6	0.06	0.07	0.1~2.5	3					0819509
	0.05...1	0.07	0.08							0819609
0.05...1.6	0.08	0.09	0819709							

Note:

\*1: This is the media pressure range of high pressure port.

\*2: Operating pressure peak value cannot over maximum operating pressure value even in short-time measurement.

## How to order

AT520-7DDS		Double Setting Differential Pressure Switch			
	Code	Pressure connection			
	2G	G1/4"			
	O	Others (please specify)			
	Code	Set point range and dead band			
	0918200	Please refer to adjustable set point range (fixed dead band) table and select corresponding order code			
	Code	Measuring elements material			
	316L	SS316L			
	O	Others (please specify)			
AT520-7DDS	2G	0918200	316L	Order example: AT520-7DDS-2G-0918200-316L	