

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 to 50°C

▼ Media temperature

0~100°C

▼ Media viscosity

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

▼ Vibration resistance

Max. 20m/s²

▼ Protection level

IP65

Other Specifications

▼ Installation

Bottom mount

(15° of tilt is acceptable)

▼ 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%

▼ Synchronization error

≤0.5%

(Synchronization error on low-switching pressure difference value *3)

▼ Contact rating

AC220V, 15A

(Resistive 600VA)

▼ Service life

2,000,000 cycles

▼ Weight

About 1.6kg

▼ 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.

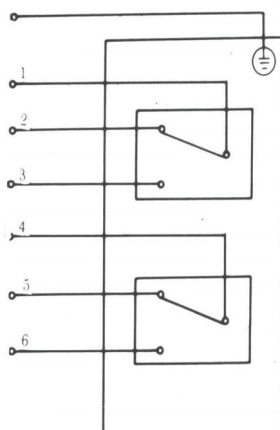


Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

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

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

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	0.018	0.024	0.05~1.6	2	10	Brass	SS316L	1.6	0819109
	0.02...0.16	0.018	0.026							0819209
	0.025...0.25	0.026	0.03							0819309
	0.03...0.4	0.03	0.04							0819409
	0.05...0.6	0.09	0.11	0.1~2.5	3					0819509
	0.05...1	0.11	0.12							0819609
0.05...1.6	0.12	0.15	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.

*3: Synchronization on high-switching pressure difference value: If necessary, please confirm to order it when ordering.

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		
		0819409	Please refer to adjustable set point range (fixed dead band) table and select corresponding order code		
		Code	Switch type		
		D	DPDT micro switch		
		O	Others (please specify)		
AT520-7DDS	2G	0819409	D	Order example: AT520-7DDS-2G-0819409-D	