

## Main Specifications

## ▼ Type

AT540-7T (Typical)

AT540-7TK (Narrow Dead Band)

## ▼ Process connection

Nickel-plated copper /  
SS304 (option)

## ▼ Adjustable set point range

-20 to +30°C

0 to +50°C

+20 to +70°C

## ▼ Dead band

Fixed/Adjustable/Narrow fixed  
dead bandFor detail please refer to  
adjustable set point range table

## ▼ Applicable fluid

Neutral liquid and gas

## ▼ Ambient temperature

-25 to +30/+50/+70°C

(refer to max set point range)

## ▼ Vibration resistance

AT540-7T: Max. 40m/s<sup>2</sup>AT540-7TK: Max. 20m/s<sup>2</sup>

## ▼ Protection level

IP65

## Other Specifications

## ▼ Installation

Bottom mount /

Wall mount with support rack  
(option)

## ▼ Case

Die casting aluminum

## ▼ Measuring elements

Encased temperature sensor

Filled with organic liquid

## ▼ Switch type

SPDT micro switch

## ▼ Repeatability

≤3%

## ▼ Max media temperature

+85°C

## ▼ Contact rating

AC220V, 6A (resistive load)

## ▼ Service life

2×10<sup>5</sup> cycles

## Mechanical Temperature Switch

### Model: AT540-7 Series

### Introduction

AT540-7T/7TK Mechanical temperature switch is suitable for neutral media measurement with adjustable set point range -20 to 70°C.

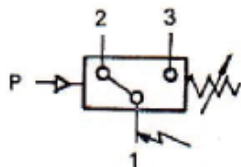


Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

## Features

- OEM service
- Fixed/adjustable/narrow fixed dead band types are available for wide applications
- Adjustable set point range -20 to 70°C
- Adopt SPDT micro switch
- Protection level IP65

### SPDT micro switch working principle



Terminal 1-3:

Open circuit when temperature is increased to setting value

Terminal 1-2:

Close circuit when temperature is increased to setting value

**Adjustable Set Point Range (Fixed Dead Band) Table**

Model	Adjustable set point range (°C)	Dead band		Maximum media temp (°C)	Weight (kg)	Order No.
		Lower limit (°C)	Upper limit (°C)			
AT540-7T	-20...+30°C	3.0	1.5	+40	0.8	0891100
	0...+50°C	1.5	1.5	+65		0891200
	+20...+70°C	2.0	1.5	+85		0891300

**Adjustable Set Point Range (Adjustable Dead Band) Table**

Model	Adjustable set point range (°C)	Dead band		Maximum media temp (°C)	Weight (kg)	Order No.
		Lower limit (°C)	Upper limit (°C)			
AT540-7T	-20...+30°C	4.5...20	2...8	+40	0.85	0890100
	0...+50°C	3.0...20	2...8	+65		0890200
	+20...+70°C	3.5...25	2...10	+85		0890300

**Adjustable Set Point Range (Fixed, Narrow Dead Band) Table**

Model	Adjustable set point range (°C)	Dead band		Maximum media temp (°C)	Weight (kg)	Order No.
		Lower limit (°C)	Upper limit (°C)			
AT540-7TK	-20...+30°C	2	1.2	+40	0.8	0891107
	0...+50°C	1.2	1.2	+65		0891207
	+20...+70°C	1.7	1.2	+85		0891307

**How to order**

AT540-7		Mechanical Temperature Switch			
AT540-7	Code	Type			
	T	AT540-7T (Typical)			
	TK	AT540-7TK (Narrow dead band)			
	Code	Set point range and dead band			
	0891200	Please refer to adjustable set point range (fixed/adjustable/narrow dead band) table and select corresponding order code			
	Code	Switch type			
	P	Micro switch SDPT			
	O	Others (please specify)			
	Code	Other requests			
	/A	Third party notarized document			
/B	Inspection report (issued by Re-Atlantis)				
/C	Tag				
/D	Connection material – SS304				
/E	Wall mount with support rack (rack x2, screw x4)				
AT540-7	T	0891200	P	Order example: AT540-7T-0891200-P	