

Temperature switch series PT

One or two independent setpoints

Accuracy: $\pm 1\%$

Features

- Setpoint adjustment separated from electrical system
- Easy setpoint adjustment, with setpoint indication
- Protection IP65, IP66 or NEMA 4, 4X, 7, 9 and 13 (UL)
- Rigid stem and capillary up to 15 m
- UL and CSA listed and CENELEC certified

Ranges

-40/16°C up to 260/400°C

-40/60°F up to 500/750°F

Applications

Chemical and petrochemical industry

Machine and apparatus construction

Food and beverage industry

Pulp and paper industry



Technical specification	PT ... N4			PT ... N7			
	PTA	PTD	PTS	PTA	PTD	PTS	
Type	Weatherproof			Explosion proof according UL, CSA or CENELEC			
Construction	Separate chambers for setpoint/deadband adjustment and electrical connections, with setpoint indicators						
Switch (setpoint) functions	One single setpoint	Two setpoint independently adjustable	One single setpoint	One single setpoint	Two setpoint independently adjustable	One single setpoint	
Deadband	Adjustable over 80%	Fixed	Fixed	Adjustable over 80%	Fixed	Fixed	
Measuring principle	Piston/cylinder system, actuated by a vapor pressure system, SAMA Class II system						
Range [°C]	-40/16	-20/40	20/95	65/125	110/190	175/275	260/400
[°F]	-40/60	0/100	75/205	150/260	235/375	350/525	500/750
Limits (temperature ranges) max. temperature	-40/16°C, -20/40°C, 20/95°C and 65/125°C		204°C	260°C	371°C	260/400°C	
Stem diameter	3/8" (9,5 mm)						
Stem length	2 3/4" (70 mm)	4" (102 mm)	6" (152 mm)	9" (229 mm)	12" (305 mm)		
Bulb length (capillary type)	3" (76 mm)						
Capillary length	5' (1,5 m)	10' (3,0 m)	15' (4,5 m)	20' (6,0 m)	25' (7,5 m)	longer lengths on request	
Process connection	1/2" NPT male for rigid stem 1/2" NPT bushing sliding on capillary or bulb						
Connection location	Lower						
Material	Connection: Stainless steel AISI 316 (1.4401) Bushing: Stainless steel AISI 316 (1.4401) Capillary and armor: Stainless steel AISI 316 (1.4401) Housing: Aluminum, epoxy coated grey						
Accuracy	1% F.S.						
Electrical specification							
Microswitch ratings	From 500 mA 28 VDC up to 20 A 250 VDC (see microswitch table)						
Ex-proof specification				UL Class 1 Div 1 Gr B, C and D CENELEC EEx d IIC T6 PTB-No. Ex-86/101311			
Electrical connection	3/4" NPT female, optional cable glands, 1/2" NPT with reducer bushing, M20x1,5, others on request						
General specification							
Permissible	Ambient temperature: -25 ... 60°C Storage temperature: -40 ... 60°C Effect: max. 0,4% / 10 K ref. 20°C						
Protection according UL	NEMA 4, 4X and 13			NEMA 7 and 9			
Protection according EN 60 529/IEC 529	IP65			IP 66			
CE-mark	Low voltage regulations EN 61 010-1, EN 60 947-1						
Mounting	Standard stem, wall (BP) or 2" pipe mounting (TM)						
Weight rigid stem/capillary [kg]							
Accessories, options	Thermowells screwed or flanged						

