

Temperature monitor TW

For monitoring temperatures in heating water, hot water systems and other applications in heating, ventilation and air-conditioning systems. When the setpoint temperature is reached, the 1-pin changeover contact (SPDT) is switched. Four different mounting types are possible.

- Pipe contact mounting
- Thermowell mounting
- Wall mounting with probe in flange
- Wall mounting with probe in immersion sleeve







Type Overview

Туре	Output signal temperature switch	Additional features	Capillary
01HT-101CA	Changeover	Auto reset	1 m

	01HT-101CA	Changeover	Auto reset	1 m	
Technical Data					
Electrical data	Electrical connection		Spring loaded terminal block max. 2.5 mm ²		
	Cable entry		Cable gland with strain relief M20x1.5 mm, for cable Ø612 mm		
Functional data	Output signal passiv	e temperature	Changeover		
	Output signal temperature switch note		AC 230 V 16 (2.5) A @ Switch position 1-2 AC 230 V 6.3 (2.5) A @ Switch position 1-4 DC 230 V 0.25 A		
	Switching reliability		min. switching current 100 mA @ AC / DC 24 V		
	Application		Air/Water		
Measuring data	Measuring values		Temperature		
	Measuring range ter	suring range temperature 3090°C			
	Setting range Tempe	erature	3090°C		
	Switching differentia	l (temperature)	Тур. 4.2 К		
	Accuracy temperatu	re passive	±1.8 K (upper third of mea ±3.6 K (at scale beginning	5 5	
Materials	Cable gland		PA6, black		
	Housing		Bottom: PA (RAL7001, silve Cover: ABS with inspection Seal: NBR		
	Capillary		Copper		
Safety data	Ambient humidity		Max. 95% r.H., non-conde	nsing	
	Ambient temperatur	e	080°C		
	Ambient temperatur	e note	On temperature probe ma switch head max. 80°C	x. setpoint +25 K, on	
	Fluid temperature		Up to max. 115°C		
	Storage temperature	2	-3080°C		
	EU Conformity		CE Marking		
	Certification IEC/EN		DIN EN 60730-1 and DIN E	N 14597	
	Degree of protection	IEC/EN	IP54		
	Degree of protection	note	IP protection with mounte	d sealing elements	
	Quality Standard		ISO 9001		
	Mode of operation		Type 2 BL		



Safety notes



This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorised modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.



During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Remarks

Switching function

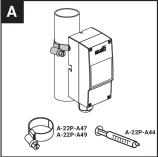
If the temperature on the sensor exceeds the setpoint value, the changeover is activated by the transmission mechanics and the electrical circuit is opened resp. closed. If the temperature falls (cooling down), the changeover is reset to its initial positon.

Installation notes

Installation situation

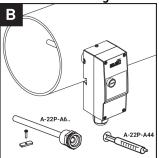
The temperature monitors can be installed in four different ways.





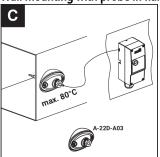
The tightening strap is included in the scope of delivery

Thermowell mounting



The thermowell A-22P-A6... is available as an optional accessory

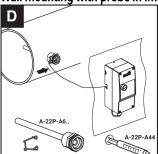
Wall mounting with probe in flange



The A-22D-A03 flange is available as an optional accessory



Wall mounting with probe in immersion sleeve



The thermowell A-22P-A6... is available as an optional accessory

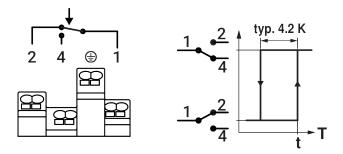
Scope of delivery

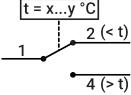
Tightening strap for pipes from Ø15...100 mm

Accessories

Optional accessories	Description	Туре
	Mounting flange for sensor probe 6 mm, up to max. 120°C [248°F], Plastic	A-22D-A03
	Syringe with thermal paste	A-22P-A44
	Fixing strap, for pipes up to Ø 40110 mm [1.64.3"]	A-22P-A47
	Fixing strap, for pipes up to Ø 40250 mm [1.69.8"]	A-22P-A49
Recommended accessories water	Description	Туре
	Thermowell pocket kit (fabricated) Brass nickel-plated, 100 mm, G1/2", SW22	A-22P-A61
	Thermowell pocket kit (fabricated) Brass nickel-plated, 150 mm, G1/2", SW22	A-22P-A62
	Thermowell pocket kit (fabricated) Brass nickel-plated, 200 mm, G1/2", SW22	A-22P-A63
	Thermowell pocket kit (fabricated) Stainless steel, 100 mm, G1/2", SW22	A-22P-A64
	Thermowell pocket kit (fabricated) Stainless steel, 150 mm, G1/2", SW22	A-22P-A65
	Thermowell pocket kit (fabricated) Stainless steel, 200 mm, G1/2", SW22	A-22P-A66

Wiring diagram

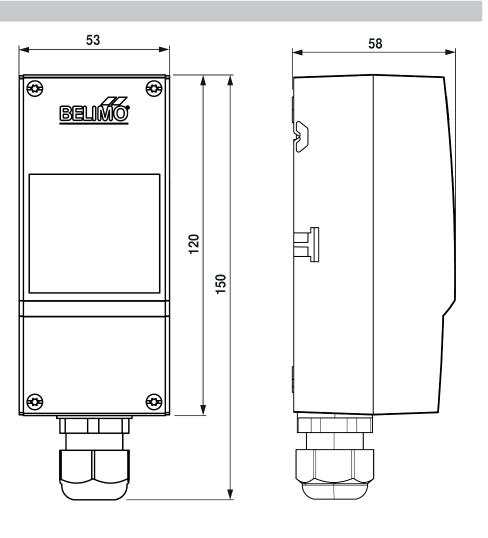




If the capillary leaks, the electrical circuit 1-2 remains permanently closed.



Dimensions



Туре	Weight	
01HT-101CA	0.12 kg	