

AMBISTAT

Swiss based Trafag is a leading international supplier of high quality sensors and monitoring instruments for the measurement of pressure and temperature.



Applications

- Potentially explosive atmosphere

Features

- Compact design
- Rugged housing
- Protection IP65
- Any mounting position possible
- May be used as „simple apparatus“ in zones at risk of explosions

03/2019

Data sheet H77182f

Subject to change

Technical Data			
Designation of application	Industrial room thermostat	Switching differential	Not adjustable
Measuring range	-30°C ... +30°C to 0°C ... +60°C	Repeatability	± 0.5 % FS typ.
Output signal	Floating change-over contact	Approval / conformity	EN60730-1/ EN60730-2-9: Typ 2.B.H EN60079-0, EN60079-11 Zone 1 and 2, 21 and 22

«Simple Apparatus» conformity to ATEX 419

Ordering information/type code

		XXX	XX	XX	XXXXXX	XX
Custom build code	Internal adjustment			419		
Microswitch	With gold plated contacts, switching differential not adjustable			71		
Range	Range [°C]		Operating temperature [°C]			
	-30 ... +30		-30 ... +40		02	
	-20 ... +40		-30 ... +50		06	
	+5 ... +35		-30 ... +50		10	
	0 ... +60		-30 ... +65		12	
Sensor / Fixing	Sensor: Copper; Fixation: Bracket (open sensor coil)				522.27	
	Sensor: Copper nickel plated; Fixation: Bracket (open sensor coil)				523.27	
Accessories	Switchpoint locking				15	
	Switchpoint fixed and sealed upon customer's request				88	
	Switchpoint preset upon customer's request, no guarantee on switching accuracy				83	
	Switchpoint adjustment please indicate when ordering: - Switchpoint [°C] - Increasing or decreasing					

Optional accessories of third party supplier

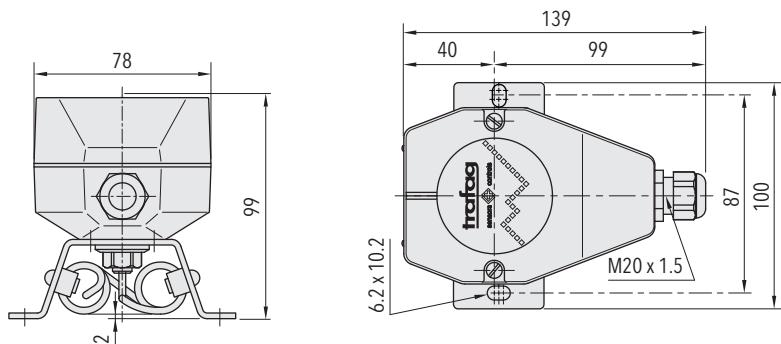
Ex-i barriers are suitable for intrinsically safe applications. The device transmits binary signals from the hazardous area into the safe area.

Ex-i-barriers: 24 VDC $U_0 = 10.5 \text{ V}$ / $I_0 = 13 \text{ mA}$ / $P_0 = 34 \text{ mW}$	ZEN24VDC
Ex-i-barriers: 230 VAC $U_0 = 10.6 \text{ V}$ / $I_0 = 19.1 \text{ mA}$ / $P_0 = 51 \text{ mW}$	ZEN230VAC



i Thermostats, when combined with a certified Ex-barrier (see "optional accessories of third party supplier"), can be used as "simple electrical apparatus" in Zone 1 and 2, as well as in Zone 21 and 22, according to IEC/EN 60079-14. These thermostats are not suitable for Zone 0 and Zone 20. Use in safety relevant applications (approved electrical apparatus) is not permitted.

Dimensions



419.71.XX.52X.27.XX

«Simple Apparatus» conformity to ATEX 419

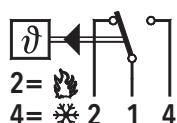
Specifications

Accuracy	Repeatability	± 0.5 % FS typ.
	Scale accuracy typ.	± 2 % FS typ.
	Switching differential	0.7°C (not adjustable)
Environmental conditions	Ambient temperature	-30°C ... max. +65°C
	Storage temperature	Range ≤ +40°C: -30 ... +50°C Range > +40°C: -30 ... +70°C
	Protection	IP65
	Humidity	Max. 95 % relative
Mechanical Data	Sensor housing	See ordering information
	Filling	Liquid
	Housing	AlSi9Cu3, coated
	Screwed cable gland	PA, Polyamide, light blue
	Installation	Any position Recommendation: screwage pointing downwards
	Weight	~ 950 g
Microswitch	Rating	See table
	Resistance of insulation	> 2 MΩ
	Dielectric strength	500 V AC terminal ground
	Life time (mechanical)	1 Mio. cycles
Electrical connection	Cable gland	M20x1.5 Cable-Ø 4...10 mm, max. cable length according to EN60079-11
	Terminal screw	3 x 1...2.5 mm²

Electrical data switch

Type	Features	Rating
71	Gold plated contacts	$U_0 = 24 \text{ V}$ $I_0 = 100 \text{ mA}$ $P_0 = 600 \text{ mW}$

Electrical connection



Additional information

Documents	Data sheet	www.trafag.com/H72182
	Instructions	www.trafag.com/H73173
	Flyer	www.trafag.com/H70972