

## Temperature switch **iTA617**

for monitoring temperatures  
in housings or fluid media

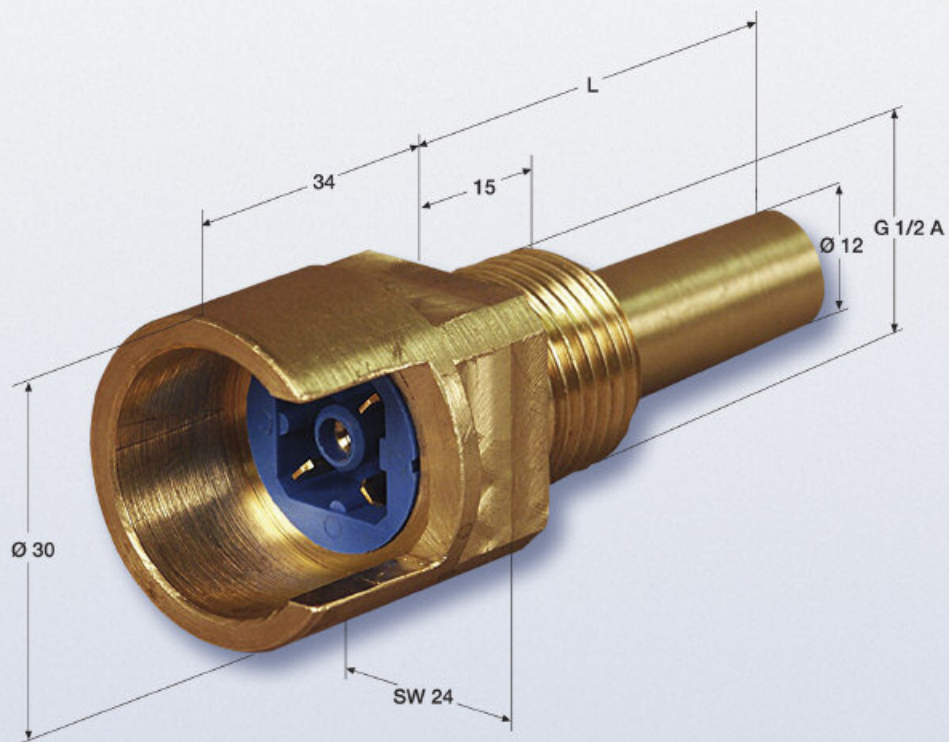
- Rugged and maintenance-free design
- Available with probe tube lengths of 45 mm and 90 mm as standard
- Switching temperature: 50 °C up to 120 °C
- Continuous temperature measurement optionally
- Plug-type connection
- Resistant to aggressive media
- Type of protection: IP 54 acc. to EN 60529/IEC 529
- Ex-approval: I M2 EEx ia I intrinsically safe acc. to Directive 94/9/EC (ATEX)



**Temperature monitoring  
in a rotary screw compressor**



## iTA617



L = probe tube length 45 mm and 90 mm, other lengths upon request





## iTA617

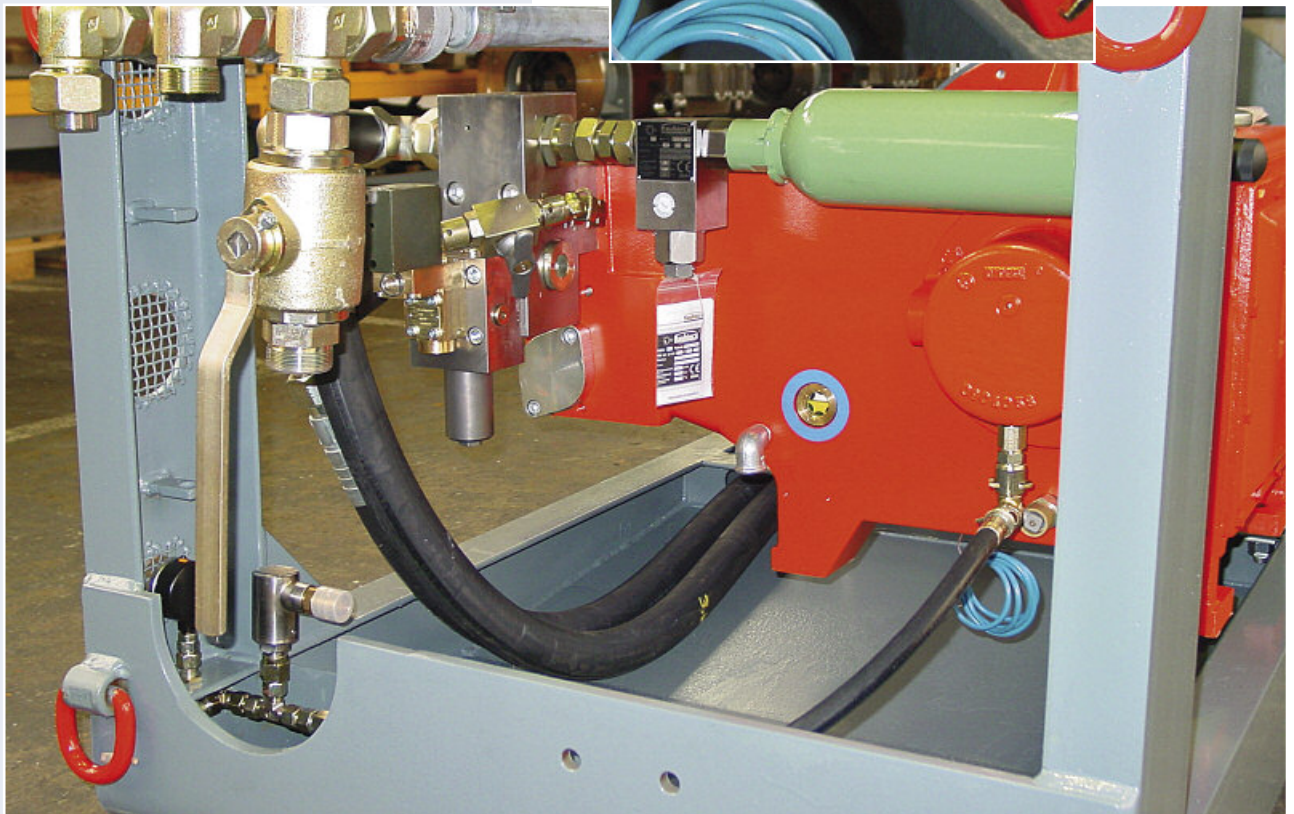
### FUNCTION AND DESIGN

The switch is designed for monitoring temperatures in housings or fluid media. Up to two thermostats with fixed switching point, optionally with NAMUR-connection, or up to two PT100 elements can be installed into the probe tube as monitoring elements. These elements are embedded in cast resin in the lower part of the probe tube. This arrangement ensures adequate safety with respect to explosion protection and mechanical damage.

The temperature switch is available with probe tube lengths of 45 mm and 90 mm as standard. If other lengths are required an inquiry should be sent.

### Application

- As it is provided with a threaded connector the switch is ideally suited for installation into housing walls, e.g. for monitoring gearbox temperatures.





# iTA617

## TECHNICAL DATA

Temperature contact	2 normally closed or open contacts max., optionally with NAMUR-connection
Switching temperature	50 °C to 120 °C
Tolerance	± 5K
Hysteresis	30 K ± 15 K
Continual temperature measurement	2 PT100 elements max.
Probe tube length	45 mm and 90 mm, other lengths upon request
Tube diameter	12 mm
Thread	G 1/2 A
Type of connection	plug-type
Type of protection	IP 54 according to EN 60529/IEC 529
Ex-approval	I M2 EEx ia I acc. to Directive 94/9/EG
Certificate number	BVS 03 ATEX E404

## TYPE CODE AND ORDERING INFORMATION

<b>* T A 617 S ** *** - ** *** - L</b>	Probe tube length 45 mm or 90 mm
	Response temperature, optionally PT100
	Switching contact: 10 ➤ NO 20 ➤ NC
	Response temperature, optionally PT100
	Switching contact: 10 ➤ NO 15 ➤ NO NAMUR 20 ➤ NC 25 ➤ NC NAMUR
	Type of connection: connector
	Series
	Design acc. to ATEX
	Temperature switch
	i ➤ intrinsically safe w ➤ non-explosionproofed version

## TYPICAL EXAMPLE

<b>iTA617S2090-10110L=45mm</b>	<ul style="list-style-type: none"> <li>■ Intrinsically safe temperature switch acc. to ATEX</li> <li>■ Connection via connector</li> <li>■ 1. Switching contact: NC with response temperature 90 °C</li> </ul>	<ul style="list-style-type: none"> <li>■ 2. Switching contact: NO with response temperature 110°C</li> <li>■ Housing with screw-in thread G1/2</li> <li>■ Probe tube length 45 mm</li> </ul>
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Subject to technical alterations · Version 04/13