

b)

(\* = not for 160 mm dia.)

(\* = not for 160 mm dia.)

Head

Threads

130

100

(nominal dia.)

G1/2 G3/4 M20X1,5 1/2"NPT 3/4"NPT

G1/2

G1/2 M18X1,5 M20X1,5

G1/2 G3/4 M24X1,5 M27X2

C2

Reference

See notice

1/2"NPT

160 mm

With unthreaded shoulder A		
15 mm d	ia. x 10	

- all-stainless steel AISI 303/1.4305 + swivelling and sliding threaded connection AMX

- all-stainless steel AISI 303/1.4305

- all-stainless steel AISI 303/1.4305

- all-stainless steel AISI 316/1.4401

- all-stainless steel AISI 303/1.4305

- all-stainless steel AISI 303/1.4305

Other connection types see data sheet TA 1

External setting device mounted on glass

temperatures between - 30 and + 200°C

Head and bezel in stainless steel AISI 316/1.4401 (\* = not for 160 mm dia.)

With index-pointer (to record maximum or minimum temperature attained)

Bimetallic measuring system with silicone grease filling for shock absorption, working

With swivelling threaded connection T

With swivelling cap connection U

Unbreakable acrylic glass

Hardened glass Safety glass

Liquid filled

Price list

mounted on glass

RÜEGER inspection certificate

With electrical and pneumatic contacts

**Options** 

(other threads on request, at extra cost)

+ swivelling and sliding cap connection AMU

With fixed threaded connection S

=	Optionnal,	with	price supplement
	•		ſ

		-,,	,	
d shoulder <b>A</b> 15 mm	dia. x 1	10	(	

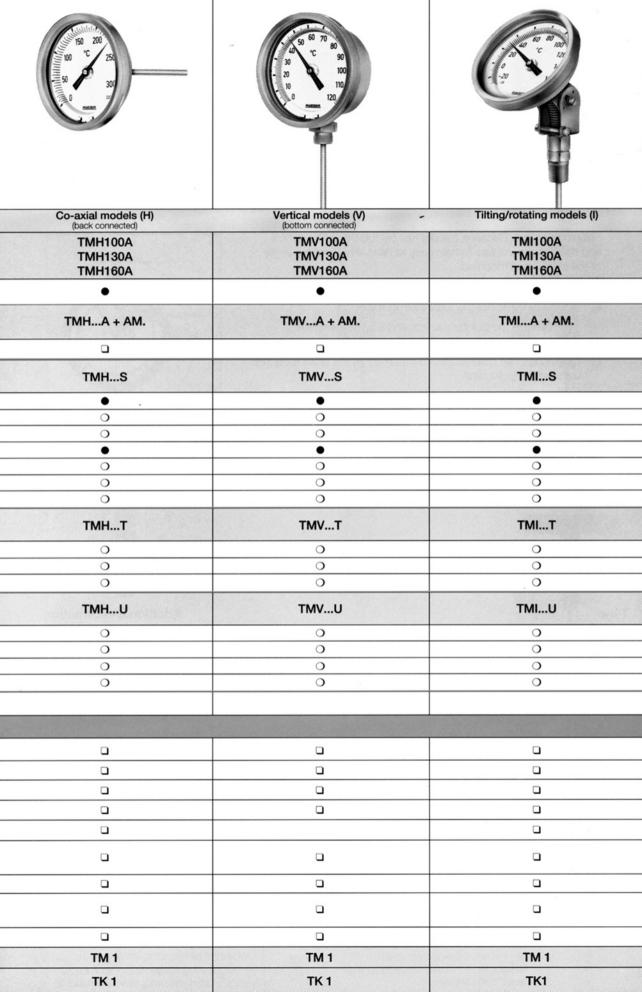
b)

Standard model, without price supplement O = Standard model, with price supplement

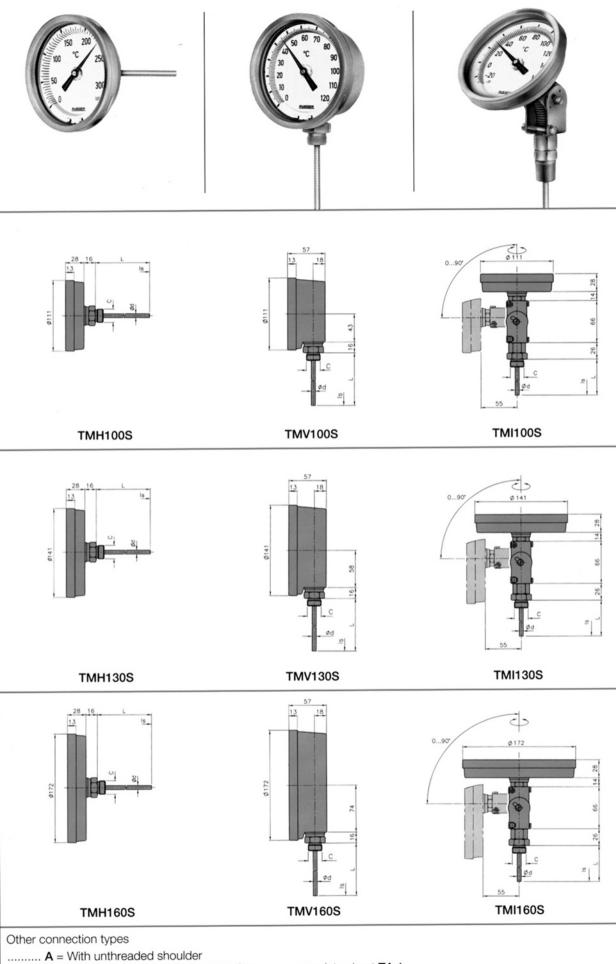
Waterproof bezel with bayonet lock (EPR seal - ethylene-propylene rubber)

Head and bezel in stainless steel AISI 304/1,4301 Mineral glass (thickness: 3 mm)

Bimetallic thermometers for industry



Standard temperature ranges														
Range Range							Range				Range			
°C	;	°Div.		°C	°Di	_	_	С	°Div.		°C	°Div.		
- 70 +		1	_	+ 60					2	0.		5 (10)		
- 30 + - 30 +		1 2		+ 100			:		2 5	0.	+ 500*/ + 600*/			
- 30 +		5		+ 160				+ 320	5	0.	10			
°F				°F			0	F			°F			
- 40 +		2		+ 250					10 100 +1100*			20		
30 + 140* 1 50 + 400* 5								+ 750*	20					
	* = with price supplement													
	The average scale angle is 270° (260-280°). The scale length on the dial is about 190 mm for 100 mm dia., 250 mm for 130 mm dia. and 300 mm for 160 mm dia													
The dial dia	ameter, th	ne printin	g of th	e figures	and the <b>di</b>	visions, co	onfo	orme to <b>DIN</b>	N standa	rds. Ti	ne antiparall	ax is made		
of printed of	or anodize	ed alumin	ium.											
On request Pointer alur				ndications	can be p	inted on th	ne c	dial.						
Stems														
	(;			gth L =				d			aterials available			
60 .				gths on re 200		.501 00	200	mm dia.	(10	n all ul	als and leng	1115)		
60	120	150	_			501 20	,00							
0	•	0	_	•	0	0	$\dashv$	6 8		Sta	inless steel			
0	0		-	0	0	0	$\dashv$	9		AISI :	304L/1.430	6		
0	0	1 0	-	0	0	-	$\neg$	6						
0	0		-	0	0	0	$\dashv$	8			inless steel			
0	0	0	-	0	0	0	$\neg$	9		AISI :	316L/1.440	4		
Tolerance	on stem o	diameters	: 0/-0	,1 mm.						,				
Importa	int!													
•		num sens	sitive le	enath «Is».	dependin	on the te	emp	erature ran	ge and th	ne con	nection type	refer to		
data sheet			51617-0-10	, igui io ,	aoportant,	, 011 1110 10	۹۰۰۰	oracaro rari	go and a			, , , , , , ,		
The immer	sion dept	h should	be at I	east equiv	alent to th	e sensitive	len	gth « <b>Is</b> ».				for		
											K, or a swive			
sliding cap (DIN-stand						a strength	ieni	g tube bet	ween the	nead	and the con	nection		
Technical	l specifi	ication												
Ch	aracteris	tics		Units	Value	,	С	haracteris	tics		Units	Value		
Range lo	ower limit			°C	≥ - 7									
	ıpper limit			°C	≤ + 60	0 fo		nge ≤ 400 N 16203	)°C		°C	Cl. 1		
Full scale (FS) ΔT n				K	60			request			%MR	1		
. ,	nax.			K	600	fo	for range > 400°C				00	01.0		
Overload						- 1	DIN 16203 on request				°C %MR	Cl. 2 1		
	ge ≤ 400			%FS	20	Hoos					74.1	-		
	ge > 400 nax. instan		emp.	%FS °C	10 600		Head Environment Permissible Tamb *) m				- 50°C			
	nax. contin			°C	520					ζ.	+ 100°C			
Repeatability %MR ≤ ± 0,2						Influence of the temperature of the head								
Hysteresis %MR ≤±0,5					5   On m	on measuring accuracy: 0 to 50°C ≤ nominal accuracy;								
Reference Tamb = 23°C ± 2°C,						outside this range, 0.2% error per 10°C					;			
acc. to DIN 16203							Safety class			IP 65				
Humidity 0100% h.r.														
*) for therm	ometers w	vithout lia	uid fille	d		FS =	= full	scale						
	mbient ter								nge = 100	% FS	or acc. to DIN	N 16203		
These therm	nometere r	may he in	vihratio	n-proof ev	ecution acc	ording to th	he o	envice cond	itions evo	ected (	e a liquid fille	d) Please		
	These thermometers may be in vibration-proof execution according to the service conditions expected (e.g. liquid filled). Please specify when ordering.													



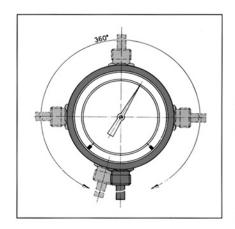
# Bimetallic thermometers for industry «Stainless»

exclusively in stainless steel
The proved «formula» of temperature measurement

# Outstanding features...

For a number of:

- Fully rotating dial. Because the dial can be rotated 360°, vertical and tilting thermometers remain easy to read, whatever the angle of the stem when mounted.
- 2 adjustment possibilities
  - a) by rotating the dial (co-axial thermometers)
    - by resetting the pointer (vertical and tiliting types) after removing the glass (setting tool n° code 025 21l0 01)
  - b) by means of an external device mounted on the glass (optional, with price supplement)
- Waterproof bezel with bayonet lock
- For the vertical models, special transmission spring eliminating hyteresis
- Antiparallax dial



## Ordering code structure

# Type T M V 1 0 0 A — Connection types A = unthreaded shoulder S = fixed threaded connection T = swivelling threaded connection U = swivelling cap connection Nominal head diameters (100, 130, 160 mm) H = co-axial V = vertical I = tilting/rotating Modular range of bimetallic thermometers THERMO-Modul

## Additional information

- Connection thread and material
- Special connection type (see data sheet TA 1)
- Diameter, length and material of stem
- Temperature range



Specialist for sensors and measuring instruments Temperature - Pressure - Flowrate

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