



MONO CONTACT BIMETALLIC THERMOSTAT TM4 AND TM6 SERIES



TM4

90° Swinging connector and incorporated seal fluid side



TM6

Technical Features :

Body : in Brass

Assembly: in every position

Maximum dimension (L =width max, H =height max):

- TM4 execution: L 48mm x H 76mm

- TM6 execution: L 48mm x H 72mm

Hydraulic connection : - 1/2" BSP Male

- 3/8" BSP Male

- M22x1,5 male

Working temperature: from -20° C to + 120°C

Switching frequency: 20 cycles/min

Switching accuracy: ± 3.5° C

Fixed hysteresis value: ~ 12° C of the settled value

Weight: 0.07 Kg for TM4

0.17 Kg for TM6

Electric Features:

- Electric connection according to DIN 43650

- Electric protection according to DIN 40050: IP65

- Maximum load on the electric contacts:

- alternate current to 220 Volt – 10 Ampère

- direct current to 125 Volt – 15 Ampère

Warranty: see dedicated page

Spare parts: see dedicated page

Also Available:

- **TMS6** with exchange contact (power supply 24Volt DC – 2 Ampère max)

- **TM4X, TM6X** with fluid part contact in Stainless Steel

- Different preset values and hysteresis on request



HOW TO ORDER

TM..



Type		Fix set switching	P max	Type of electric contact	Body material	Hydraulic connection		
		°C	Bar			1	2	3
TM44	TM64	40	200	A NA C NC	X in AISI316L if omitted means Brass	½"BSP	⅜"BSP	M22x1.5
TM45	TM65	50	200					
TM46	TM66	60	200					
TM47	TM67	70	200					
TM48	TM68	80	200					
TM49	TM69	90	200					
TM49.0	TM69.0	100	200					
TM49.1	TM69.1	110	200					

OY HYDRO-MATERIAL AB

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MONO CONTACT BIMETALLIC THERMOSTAT TF4 SERIES

Technical Features :



TF4 _ _ _ 4
Execution CH24



TF4 _ _ _ 7
Execution CH27
with incorporated
seal fluid side

Body : in Brass

Sensor: bimetallic resined in the body

Assembly: in every position

Maximum dimension (L =width max, H =height max):

- CH24 execution: L 26mm x H 37mm

- CH27 execution: L 32mm x H 36mm

Hydraulic connection :

- 1/2" BSP Male

- 3/8" BSP Male

- M22x1,5 male (only for execution CH27)

Working temperature: from -20° C to + 120°C

Switching frequency: 20 cycles/min

Switching accuracy: ± 3.5° C

Fixed hysteresis value: ~ 12° C of the settled value

Weight: 0.06 Kg

Electric Features:

- Electric connection according to DIN 43650

- Electric protection according to DIN 40050: IP67

- Maximum load on the electric contacts:

- alternate current to 220 Volt – 10 Ampère

- direct current to 125 Volt – 15 Ampère

Warranty: see dedicated page

Spare parts: see dedicated page

Also Available:

- **TF4_X** with fluid part contact in Stainless Steel

- Different preset values and hysteresis on request



HOW TO ORDER

<div>TF..</div> <div><div></div><div></div><div></div><div></div><div></div></div>								
Type	Fix set switching	P max	Type of electric contact	Body material	Hydraulic connection			Type of execution
	°C	Bar			1	2	3	
TF44	40	200	A NA C NC	X AISI316L if omitted means brass	½"BSP	⅜"BSP	M22x1.5 only for CH27 execution	4 Body CH24
TF45	50	200						
TF46	60	200						
TF47	70	200						
TF48	80	200						7 Body CH27
TF49	90	200						
TF49.0	100	200						
TF49.1	110	200						

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Technical features:



XT5

Body: 30 x 30 mm square in brass

Assembly: in every position

Maximum dimension (L =width max, H =height max):

- without connector: L 51mm x H 73mm

- with connector: L 73mm x H 73mm

Hydraulic connections: 1/2" BSP male

Working temperature: from - 20°C to + 100°C

Switching frequency: 30 cycles/min

Switching accuracy: ± 3% of the settled temperature value

Fixed hysteresis value: ~ 10% of the settled value

Weight: 0,2 Kg

Mechanical life: 2x10⁶ cycles at 20°C

Electric Features:

- Power supply: 24 Volt DC

(1 = positive T = negative)

- Electric connection: according to DIN 43650

- Electric protection: according to DIN 40050: IP65

- Maximum load on the electric contacts: 1.5 Ampère

- Medium consumption: 20 mA

- Involatile memory: EEPROM

Warranty: see dedicated page

Spare parts: see dedicated page

Also available:

- Electric connectors with light signal of insertion



HOW TO ORDER

XT51



Type	Switching temperature range °C	P max Bar	Type of electric connection
XT51	40 > 100	100	M4 Connector with light signal of insertion If omitted means standard connector

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ELECTRONIC TEMPERATURE SWITCH RT6 SERIES

Technical features :

Body : 30x30mm square in brass

Assembly : in every position

Maximum dimension (L =width max, H =height max):

L 48 mm x H 77 mm

Fluid connection port : in brass

Working temperature : from - 20°C to + 70°C

Switching frequency : 60 cycles/min

Operating point: adjustable through key situated on the electric connector

Switching accuracy : $\pm 1,5\%$ of the pressure settled at 20°C

Hysteresis value : adjustable gap between 2% and 90% of the settled value

Weight : 0,1 Kg

Mechanical life: 2×10^6 cycles at 20°C

Electric features :

- Maximum load: 1 Ampère at 24 Volt DC (see dedicated page)
- Electric contacts NA or NC
- Electric connection according to DIN 43650 with prewired cable with 1m. length
- Electric protection according to DIN40050: IP65
- Power supply : standard from 10 to 24 Volt DC
- Medium consumption : 10 mA

Warranty : see dedicated page

Spare parts : see dedicated page

Using instructions : see dedicated page



HOW TO ORDER

RT6									
Type	Switching pressure range	P max	Hydraulic connection			Type of execution	Preset value T max	Preset value T min	Type of electric connection
	Bar	Bar	1	2	3		°C	°C	
RT6	20 > 90	200	1/4" BSP male	3/8" BSP male	M22x1.5 male	C Version with NC contacts A version with NA contacts	Indicate the value if needed	Indicate the value if needed	M5 Connector with light signal of insertion and integrated push button for immediate and intuitive setting thresholds M3 Standard connector with thresholds preset in our factory

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ADJUSTABLE FLOW INDICATOR ZV SERIES

Technical Features :

Body : in anodised aluminium

Assembly:

- in vertical position with flow direction from the bottom to the top
- minimum distance of 30 mm from inductive magnet fields and ferrous parts

Maximum dimension (L =width max, H =height max):

- till to ZV6: L 65mm x H 90mm
- for ZV7 and ZV8: L 75mm x H 120mm

Hydraulic connection :

- ½" BSP female till to ZV6
- ¾" BSP female for ZV7 and ZV8

Working temperature : from -20 °C to + 100°C

Weight : 0.2 Kg

Mechanical life: 10⁶ cycles at 20°C

Electric Features:

- Electric connection according to DIN 43650
- Electric protection according to DIN 40050: IP65
- Standard electrical contact : exchange (on request NA)
- Maximum load on the electric contacts:
 - alternate current to 48 Volt – 1 Ampère
 - direct current to 48 Volt – 0.5 Ampère

Warranty: see dedicated page

Spare parts: see dedicated page

Also Available :

- **ZVX** with body in AISI 316 Stainless Steel
- **ZVP** with body in PVC (maximum pressure)



HOW TO ORDER

ZV.

:

Type	Switching pressure range L/min di H2O	Switching pressure range NI/min Air	P max bar	Hydraulic connection	Body material
ZV1	0.2 > 1	6 > 30	150	½" BSP female	X AISI316L P PVC if omitted means in nickel-plated brass
ZV2	0.4 > 1.6	12 > 48	150		
ZV3	1 > 4	30 > 120	150		
ZV4	2 > 8	60 > 240	150		
ZV5	4 > 15	120 > 450	150		
ZV6	6 > 20	160 > 620	150		
ZV7	10 > 40	300 > 1200	120	¾" BSP female	
ZV8	30 > 90	900 > 2700	120		

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