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**JUMO Process Control, Inc.**  
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# Dial thermometer, chemistry version

## Special features

- Temperature display with bi-metal measuring system
- Stainless steel case with bayonet lock
- Class 1
- Protection class IP 65
- Case sizes Ø: 100 mm and 160 mm

## Brief description

Dial thermometer in chemistry design are devices, which can be universally used for local temperature measurement.



Type 608003/1010

## Technical Data

<b>Basic type extensions</b>	0110, 0116, 1010, 1016
<b>Case</b>	Case and front ring made of stainless steel (1.4301)
<b>Protection type</b>	IP 65 as per DIN 60529
<b>Front pane</b>	Glass, for device with extra code 434 made of Plexiglas (PMMA)
<b>Scale</b>	Polished aluminum, labeled in black
<b>Display</b>	Class 1 as per DIN EN 13190
<b>Time behavior</b>	approx. 20 s (measured in moving water with a probe Ø of 10 mm made of stainless steel)
<b>Influential effect of the ambient temperature</b>	no influence
<b>Limit value temperatures</b>	-30...+80°C (storage and transport -30...+80°C)
<b>Rated position</b>	any

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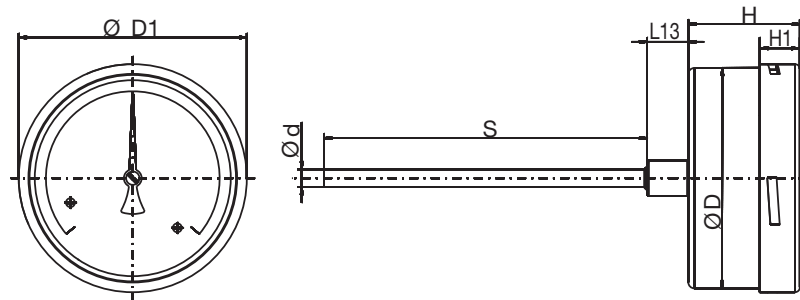
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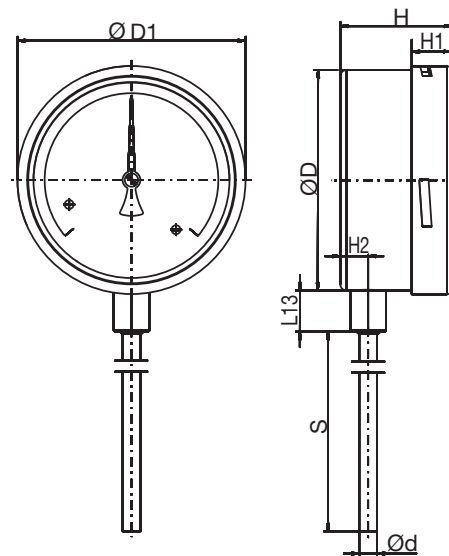
Display range (AB)	Display range in °C	Measuring range in °C	Tolerance in °C
643	-20...+120	0...+100	2.0
357	-50...+50	-40...+40	1.0
810	0...+80	+10...+70	1.0
814	0...+100	+10...+90	1.0
818	0...+120	+20...+100	1.0
826	0...+160	+20...+140	2.0
832	0...+200	+20...+180	2.0
834	0...+250	+30...+220	2.5
840	0...+300	+30...+270	5.0
854	0...+500	+50...+450	5.0

## Dimensions

**Types:**  
 608003/0110  
 608003/0116



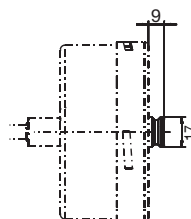
**Types:**  
 608003/1010  
 608003/1016



Dimensional specifications about Ø d and L13 see data sheet 608730.

**Extra code**

**434**



Type	Ø D	Ø D1	H	H <sub>1</sub>	H <sub>2</sub>
608003/0110	99	101.5	50	18	12.5
608003/1010				21	
608003/0116	159	161.5		21	
608003/1016					

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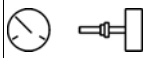
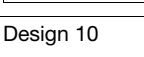

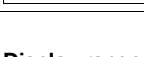
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## Order details










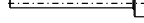
### Order code (1) Basic type

Order code	Basic type
	Mechanical dial thermometer, chemistry version, class 1
	Design 01 Case size Ø
608003/0110	 100 mm
608003/0116	 160 mm
	Design 10 Case size Ø
608003/1010	 100 mm
608003/1016	 160 mm

### (2) Display range in °C

357	-50...+50
643	-20...+120
810	0...+80
814	0...+100
818	0...+120
826	0...+160
832	0...+200
834	0...+250
840	0...+300
854	0...+500

### (3) Process connection (PC)<sup>b</sup>

010	TA 01	Immersion tube with collar	
844	TA 02	Immersion tube with union nut and loose screw-connection <sup>a</sup>	
845	TA 03	Immersion tube with loose union nut	
841	TA 04	Immersion tube with fixed hexagon <sup>a</sup>	
847	TA 06	Immersion tube with displaceable clamping screw-connection (max. 20 bar)	
018	TA 08	Immersion tube with displaceable mounting plate made of galvanized steel and locking screw	
858	SH 04	Single-section screw-in sheath	
891	SH 05	Multi-sectional screw-in sheath	
913	SH 07	Multi-sectional screw-in sheath with locking screw	
820	SH 09	Multi-sectional weld-in sheath with locking screw	

<sup>a</sup> Screw spigot as per DIN 3852 form A (not for NPT threads).  
<sup>b</sup> For description and special features refer to data sheet 608730.

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**(4) Ø Process connection (PC)<sup>b</sup>**

6	6 mm	(not with display ranges 628, 564, 807)
10	10 mm	
12	12 mm	(only with SH 05, SH 07)
14	14 mm	(only with SH 05, SH 07, SH 09)
17	17 mm	(only with SH 04)

**(5) Thread type of process connection (PC)<sup>b</sup>**

000	Without thread (only TA 01)
103	Screw connection G 3/8
104	Screw-connection G 1/2
105	Screw-connection G 3/4
144	Screw-connection 1/2-14NPT

**(6) Material of process connection (PC)<sup>b</sup>**

26	Stainless steel (CrNi, 1.4571)
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**(7) Fitting length, process connection (PC) dimension "S"**

100	100 mm
150	150 mm
200	200 mm
...	Special length (specifications in plain text - 50 mm steps)

**(8) Extra code (EC)**

000	Without extra codes
434	Fly back can be adjusted with a screwdriver, protected by a cover (front pane made of Plexiglas; max. ambient temperature +70°C)
474	Fly back damping unit filled with silicone (only with basic type extension 0110, 0116, not in connection with TZ 434)
522	Customized scale

**Special versions on request !**

<sup>b</sup> For the description and special features refer to data sheet 608730.

**Order code**      (1)      (2)      (3)      (4)      (5)      (6)      (7)      (8)  
 608003/..... - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] / [ ] , ...  
**Order example**    608003/0110 - 810 - 010 - 10 - 104 - 26 - 100 / 000<sup>c</sup> , ...

<sup>c</sup> State extra codes in sequence, separated by commas.