

JUMO GmbH & Co. KG

Delivery address: Mackenrodtstraße 14
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
Email: mail@jumo.net
Internet: www.jumo.net

JUMO UK LTD

JUMO House
Temple Bank, Riverway
Harlow, Essex, CM20 2DY, UK
Phone: +44 1279 63 55 33
Fax: +44 1279 62 50 29
Email: info.uk@jumo.net
Internet: www.jumo.co.uk

JUMO Process Control, Inc.

6724 Joy Road
East Syracuse, NY 13057, USA
Phone: +1 315 437 5866
Fax: +1 315 437 5860
Email: info.us@jumo.net
Internet: www.jumousa.com



Bimetal Dial Thermometer

Chemistry version

Description

The device is used to measure the temperature of liquids and gases.

The device is suitable for installation in pipelines, containers, machines, and systems and can also be used outdoors.

Areas of application

- Mechanical engineering
- Process industry
- Gear and gearbox construction
- Chemical plants
- Plant engineering

Special features

- Bimetal measuring system
- Stainless steel case with bayonet fastener
- Insensitive to ambient temperature



Type 608003/1010

JUMO GmbH & Co. KG
 Delivery address: Mackenrodtstraße 14
 36039 Fulda, Germany
 Postal address: 36035 Fulda, Germany
 Phone: +49 661 6003-0
 Fax: +49 661 6003-607
 Email: mail@jumo.net
 Internet: www.jumo.net

JUMO UK LTD
 JUMO House
 Temple Bank, Riverway
 Harlow, Essex, CM20 2DY, UK
 Phone: +44 1279 63 55 33
 Fax: +44 1279 62 50 29
 Email: info.uk@jumo.net
 Internet: www.jumo.co.uk

JUMO Process Control, Inc.
 6724 Joy Road
 East Syracuse, NY 13057, USA
 Phone: +1 315 437 5866
 Fax: +1 315 437 5860
 Email: info.us@jumo.net
 Internet: www.jumousa.com



Approval marks and certificates



Certificates for approved device versions are available for download on the manufacturer's website.
 Russian documentation upon request.

Technical data

Ex identification markings

ATEX, UKEX	II 2 G Ex h IIC T6-T1 Gb II 2 D Ex h IIIC T80°C-T450°C Db
------------	--

Inputs

Measuring range and accuracy

Reference conditions

Error limit	DIN EN 14597 Class 1
Rated position	Any

Control ranges

Display range	Measuring range	Tolerance (±)
-20 to +120 °C	0 to 100 °C	2.0 K
-50 to +50 °C	-40 to +40 °C	1.0 K
0 to 80 °C	10 to 70 °C	1.0 K
0 to 100 °C	10 to 90 °C	1.0 K
0 to 120 °C	20 to 100 °C	2.0 K
0 to 160 °C	20 to 140 °C	2.0 K
0 to 200 °C	20 to 180 °C	2.0 K
0 to 250 °C	30 to 220 °C	2.5 K
0 to 300 °C	30 to 270 °C	5.0 K
0 to 500 °C	50 to 450 °C	5.0 K

Display

Type	Scale
View	Linear
Labeling	Black
Temperature range	-50 to +50 °C

JUMO GmbH & Co. KG

Delivery address: Mackenrodtstraße 14
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
Email: mail@jumo.net
Internet: www.jumo.net

JUMO UK LTD

JUMO House
Temple Bank, Riverway
Harlow, Essex, CM20 2DY, UK
Phone: +44 1279 63 55 33
Fax: +44 1279 62 50 29
Email: info.uk@jumo.net
Internet: www.jumo.co.uk

JUMO Process Control, Inc.

6724 Joy Road
East Syracuse, NY 13057, USA
Phone: +1 315 437 5866
Fax: +1 315 437 5860
Email: info.us@jumo.net
Internet: www.jumousa.com



Environmental influences

Ambient temperature	
Storage	-30 to +80 °C
Transport	-30 to +80 °C
Ambient temperature influence	Without
Time constant $t_{0.632}$	
In moving water with stainless steel sensor, Ø 10 mm	~20 s
Protection type	DIN EN 60529
Standard	IP65
Drag indicator	IP54

Mechanical features

Materials

Case	
Bayonet fastener	1.4301 (304)
Front pane	Glass
With extra code drag indicator	PC
Scale	Polished aluminum

JUMO GmbH & Co. KG
 Delivery address: Mackenrodtstraße 14
 36039 Fulda, Germany
 Postal address: 36035 Fulda, Germany
 Phone: +49 661 6003-0
 Fax: +49 661 6003-607
 Email: mail@jumo.net
 Internet: www.jumo.net

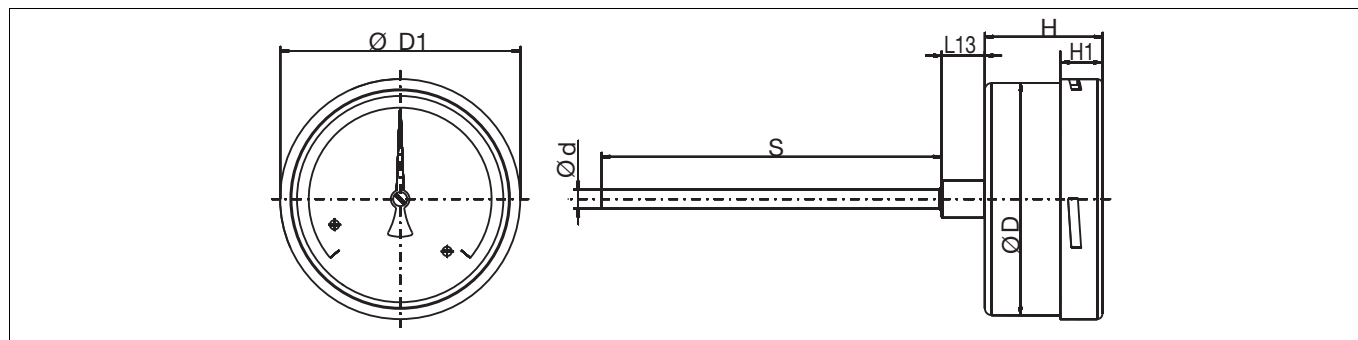
JUMO UK LTD
 JUMO House
 Temple Bank, Riverway
 Harlow, Essex, CM20 2DY, UK
 Phone: +44 1279 63 55 33
 Fax: +44 1279 62 50 29
 Email: info.uk@jumo.net
 Internet: www.jumo.co.uk

JUMO Process Control, Inc.
 6724 Joy Road
 East Syracuse, NY 13057, USA
 Phone: +1 315 437 5866
 Fax: +1 315 437 5860
 Email: info.us@jumo.net
 Internet: www.jumousa.com



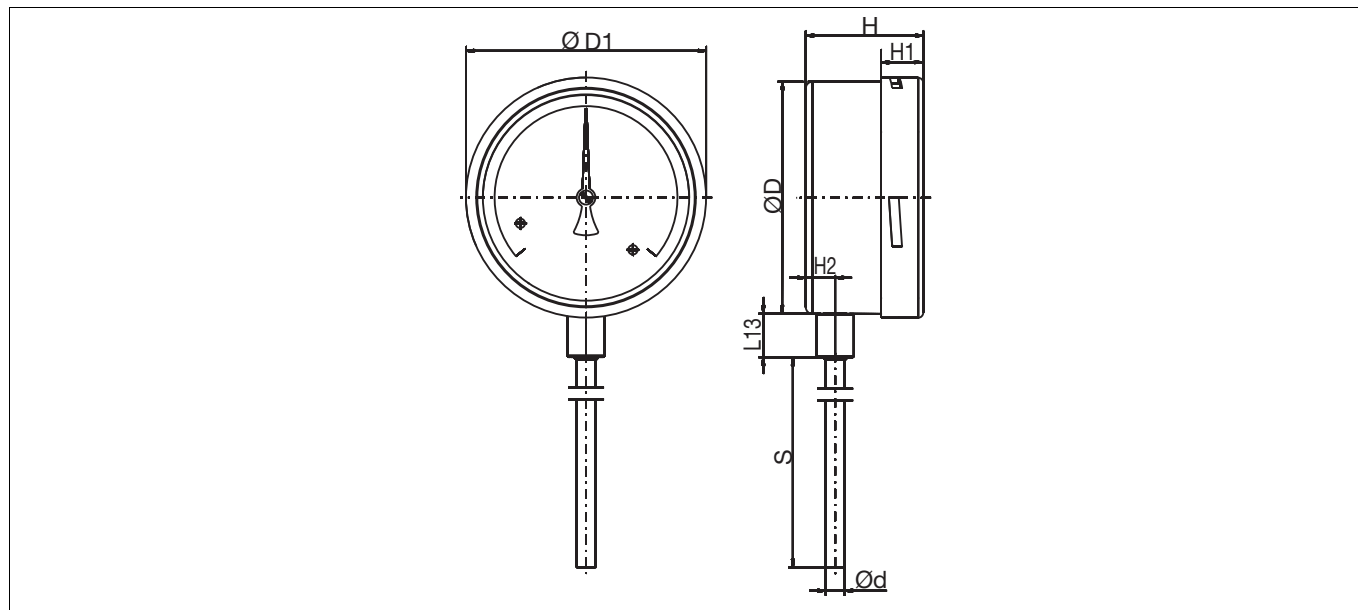
Dimensions

Type 608003/0110, Type 608003/1010



Type	Ø D	Ø D ₁	H	H ₁	H ₂
608003/0110	99	101.5	50	18	12.5
608003/1010	99	101.5	50	18	12.5

Type 608003/0116, Type 608003/1016



Type	Ø D	Ø D ₁	H	H ₁	H ₂
608003/0116	159	101.5	50	21	12.5
608003/1016	159	101.5	50	21	12.5

JUMO GmbH & Co. KG

Delivery address: Mackenrodtstraße 14
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
Email: mail@jumo.net
Internet: www.jumo.net

JUMO UK LTD

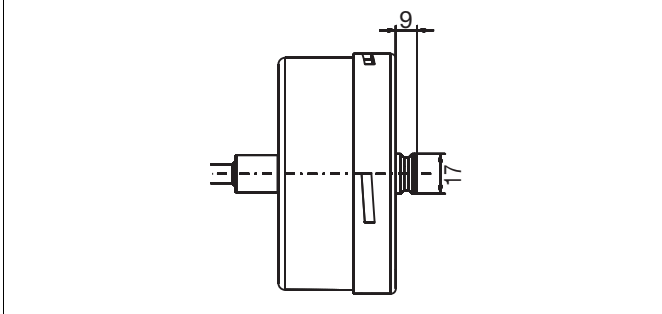
JUMO House
Temple Bank, Riverway
Harlow, Essex, CM20 2DY, UK
Phone: +44 1279 63 55 33
Fax: +44 1279 62 50 29
Email: info.uk@jumo.net
Internet: www.jumo.co.uk

JUMO Process Control, Inc.

6724 Joy Road
East Syracuse, NY 13057, USA
Phone: +1 315 437 5866
Fax: +1 315 437 5860
Email: info.us@jumo.net
Internet: www.jumousa.com



Type 608003 with drag indicator



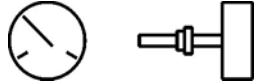
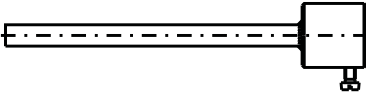
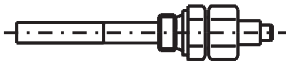
JUMO GmbH & Co. KG
 Delivery address: Mackenrodtstraße 14
 36039 Fulda, Germany
 Postal address: 36035 Fulda, Germany
 Phone: +49 661 6003-0
 Fax: +49 661 6003-607
 Email: mail@jumo.net
 Internet: www.jumo.net

JUMO UK LTD
 JUMO House
 Temple Bank, Riverway
 Harlow, Essex, CM20 2DY, UK
 Phone: +44 1279 63 55 33
 Fax: +44 1279 62 50 29
 Email: info.uk@jumo.net
 Internet: www.jumo.co.uk

JUMO Process Control, Inc.
 6724 Joy Road
 East Syracuse, NY 13057, USA
 Phone: +1 315 437 5866
 Fax: +1 315 437 5860
 Email: info.us@jumo.net
 Internet: www.jumousa.com



Order details

(1) Basic type		
608003/0110	Bimetal dial thermometer, chemistry version, class 1, design type 01, housing size Ø 100 mm	
608003/0116	Bimetal dial thermometer, chemistry version, class 1, design type 01, housing size Ø 160 mm	
608003/1010	Bimetal dial thermometer, chemistry version, class 1, design type 10, housing size Ø 100 mm	
608003/1016	Bimetal dial thermometer, chemistry version, class 1, design type 10, housing size Ø 160 mm	
(2) Display range		
357	-50 to +50 °C	
643	-20 to +120 °C	
810	0 to 80 °C	
814	0 to 100 °C	
818	0 to 120 °C	
826	0 to 160 °C	
832	0 to 200 °C	
834	0 to 250 °C	
840	0 to 300 °C	
854	0 to 500 °C	
(3) Process connection ^a		
010	TA01 Protection tube with collar	
820	SH09 Multi-sectional weld-in protection tube with fixing screw (with TF01)	
841	TA04 Protection tube with fixed hexagon	
844	TA02 Protection tube with union nut and loose screw connection (with TF05)	
845	TA03 Protection tube with loose union nut (with TF05)	
847	TA06 Protection tube with displaceable threaded fitting on stepped support tube (max. 20 bar)	
858	SH04 Single sectional screw-in protection tube	
891	SH05 Multi-sectional screw-in protection tube	
913	SH07 Multi-sectional screw-in protection tube with fixing screw	
(4) Diameter ^a		

Delivery address: Mackenrodtstraße 14
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
Email: mail@jumo.net
Internet: www.jumo.net

JUMO House
Temple Bank, Riverway
Harlow, Essex, CM20 2DY, UK
Phone: +44 1279 63 55 33
Fax: +44 1279 62 50 29
Email: info.uk@jumo.net
Internet: www.jumo.co.uk

JUMO Process Control, Inc.
6724 Joy Road
East Syracuse, NY 13057, USA
Phone: +1 315 437 5866
Fax: +1 315 437 5860
Email: info.us@jumo.net
Internet: www.jumousa.com



^a For description and special features, refer to data sheet 608730.

^a List extra codes in sequence, separated by commas.