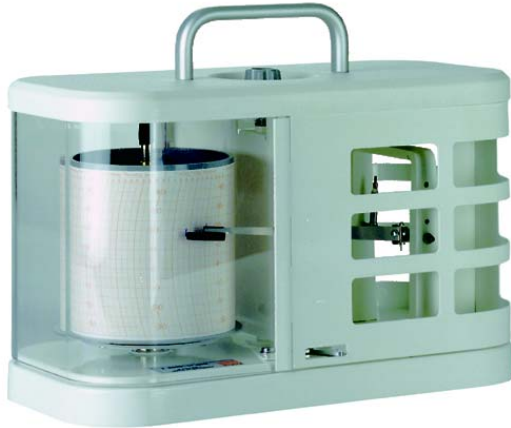


# Thermograph

Instruction for use 2.0600.10.011MU with Spring clockwork 202501



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## **1. Range of application**

The thermograph measures and records the air temperature of the surrounding atmosphere. The recording drum is driven with great precision by a manual spring clockwork mechanism.

## **2. Set up and mode of operation**

The clockwork and the columns with the humidity measuring element and the temperature measuring element are mounted to a base plate. The instrument is protected by a tiltable transparent hood. The measuring elements react promptly thanks to large ventilation openings in the direction of measurement.

Temperature is measured by a high quality, aged bimetallic measuring element which has been bent to form a ring. The radius of the measuring element changes when the temperature changes. This change in radius is likewise recorded by the fibre-tipped pen on the recording strip.

The rotation of the drum allows time-dependent registration.

## **3. Model**

Order no.: 2.0600.10.011MU

#### 4. Technical data

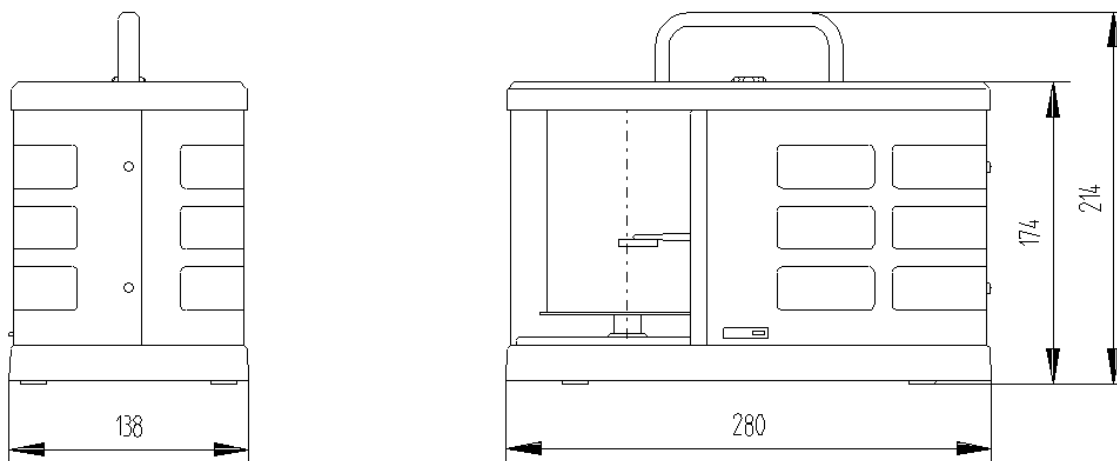
Measuring range : -10 ... +50°C  
Graduation : 1°C  
Measurement accuracy : ± 1 % of the measuring range  
Recording width : 82 mm  
Weight : 2,8 kg

##### Spring clockwork mechanism

Recording time : 7 days  
Thrust : 40,01 mm/day  
Temperature range : -35 ... +80°C  
Gear accuracy : ± 60 s/day at 20°C in accordance with  
German Industrial Standards Code 8300

Clockwork drum : S 93 x 93 similar to German Industrial Standards Code 58658

#### 4.1 Dimensions

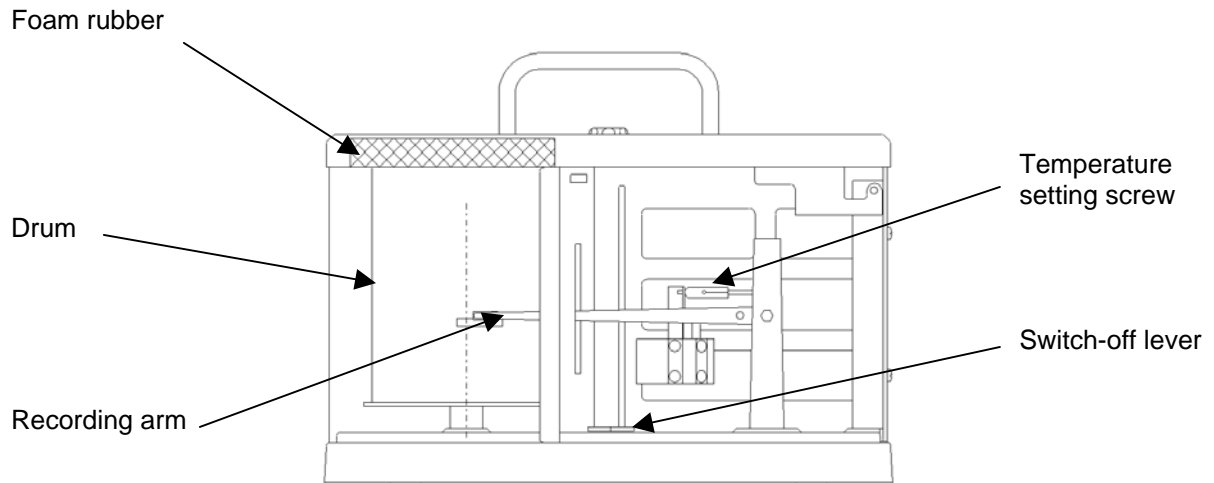


#### 5. Preparation for use

Unscrew the knurled-head screw and open the hood. Remove the foam rubber from the hood (transport protection). Push the switch-off lever to the left to raise the recording pen from the recording strip.

Place the recording strip onto the inverted drum (see 6.1 Changing the recording strip) and insert this onto the drive mechanism until it locks into place!

Remove the tip protector from the recording pen. For instruments with a spring clockwork mechanism, wind the clockwork with the key in the drum, turning it to the left. Rotate the drum counter clockwise to the correct time. Close the hood and re-screw the knurled-head screws. Press the switch-off lever to the right stop in order to lower the recording pen onto the recording strip.



## **6. Maintenance**

### **6.1 Changing the recording strip**

This should be done regularly at the time when the recording strip starts; for example if you are using a 7 day recording period, then change the strip every Monday morning. After swinging the recording arm forwards, raise the chart holder and remove the recording strip. Place the new recording strip onto the drum and fix it into position by inserting the chart holder. Make sure that the new recording strip fits snugly and smoothly against the lower edge of the drum. Rewind the clockwork mechanism every time you change the recording strip. Swing the recording arm back to its original position and rotate the drum counter clockwise to the correct time. The instrument is now ready for use.

**Recording strips** (1 Set = 100 sheets), **-10..+50°C/ 7 d** Order-no. :205038

### **6.2 Changing the recording pen**

Remove the recording pen carefully from the recording arm. Remove the tip protection from the new pen. Make sure that you do not touch the recording tip when you place the new pen into position.

**Recording pens**, (minimum order of 6) Order-no. 500 847

### **6.3 Checking the bimetallic setting**

The accuracy of the bimetallic element is checked by carrying out a comparative measurement. In a temperature-constant room hang a precision mercury thermometer next to the Thermograph. Allow about 20 minutes adjustment time and then compare the temperature values. If a correction is necessary, do this with the aid of the temperature setting screw on the bimetallic element.



## **ADOLF THIES GmbH & Co. KG**

Hauptstraße 76      37083 Göttingen Germany  
P.O. Box 3536 + 3541      37025 Göttingen  
Phone ++551 79001-0      Fax ++551 79001-65  
[www.thiesclima.com](http://www.thiesclima.com)      [info@thiesclima.com](mailto:info@thiesclima.com)



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