

## NEW FEATURES

### IN COMPARISON WITH TESTOMAT ECO®

- Especially for **applications in boiler houses**, the Testomat® EVO TH has been certified by TÜV with the component marking TÜV.WÜH.21-025
- Integrated SD Card:
  - Data and alarm/error logging onto SD card
  - Firmware update via SD card
  - Import and export of settings
- Transfer of measuring data and status via RS232 interface
- Optional connection of a fieldbus converter or a converter for telecommunication networks.
- **Testomat® EVO TH CAL** with calibration function to compensate for interfering influences by external ions

## COMPANIES OF THE HEYL NETWORK

### Germany

**Gebrüder Heyl Vertriebsgesellschaft  
für innovative Wasseraufbereitung mbH**

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### France

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### The Netherlands

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### USA

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### Production and Development

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Flyer Testomat EVO EN 220228

## TESTOMAT® EVO TH

ONLINE ANALYSIS UNIT FOR RESIDUAL  
TOTAL HARDNESS (WATER HARDNESS)



*also available as  
Testomat® EVO TH CAL  
with calibration function*



**GEBRÜDER HEYL**  
Analysentechnik GmbH & Co. KG  
Wasser ist unser Element

## OVERVIEW

TESTOMAT® EVO TH

The analysis unit Testomat® EVO TH is an on-line analysis unit, which determines residual total hardness (water hardness) in water via titration and following photoelectrical evaluation.

The indicator is pumped into the water filled measuring chamber by a piston dosing pump until the colour changes. The measuring value will be calculated with the amount of metering strokes.

Measuring of total hardness with 4 types of indicator in a range of 0,05 - 25 °dH or 0.89 to 448 ppm CaCO<sub>3</sub>

The Testomat® EVO TH is qualified for monitoring and controlling the water quality in:

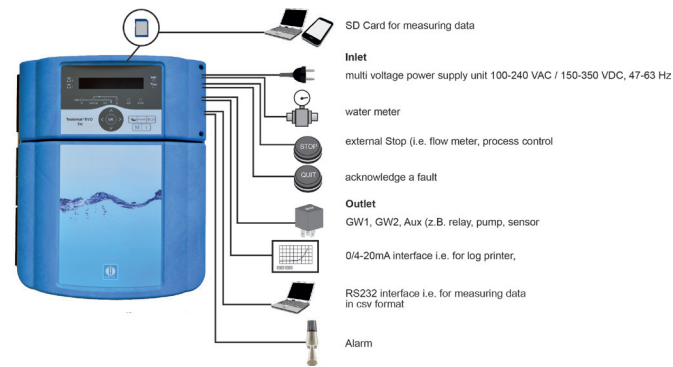
- Boiler houses
- Water treatment plants
- Industrial boilers
- Monitoring of process water
- Drinking water systems
- and much more

## PARAMETER/INDICATOR TYPE

UNIT	TH 2005	TH 2025	TH 2050	TH 2100	TH 2250
°dH (resolution)	0,05 - 0,50 (0,01)	0,25 - 2,50 (0,05)	0,5 - 5,0 (0,1)	1,0 - 10,0 (0,2)	2,5 - 25,0 (0,5)
°f (resolution)	0,09 - 0,89 (0,02)	0,45 - 4,48 (0,1)	0,89 - 8,9 (0,2)	1,8 - 17,9 (0,4)	4,5 - 44,8 (1,0)
ppm CaCO <sub>3</sub> (resolution)	0,89 - 8,93 (0,2)	4,5 - 44,8 (0,9)	8,9 - 89 (2)	18 - 179 (3,8)	45 - 448 (10)
mmol/l (resolution)	0,01 - 0,09 (0,01)	0,04 - 0,45 (0,01)	0,09 - 0,89 (0,02)	0,18 - 1,79 (0,04)	0,45 - 4,48 (0,1)

## ELECTRICAL CONNECTIONS

TESTOMAT® EVO TH



Our customers of Geonwater B.V./Netherlands use the Testomat® EVO TH CAL to measure water hardness. They particularly appreciate the calibration function of the device.

## TECHNICAL DATA

TESTOMAT® EVO TH

**Power supply:** 230 VAC or 100 - 240 VAC ± 10 %, 50-60 Hz

**Power consumption:** max. 230 V (100-240 V)/4 A, without external load 230 V (100-240 V)/1 A

**Protection class:** I

**Degree of protection:** IP44

**Conformity:** EN 61326-1, EN 61010-1

BS EN IEC 61326-1, BS EN 61010-1+A1



**Ambient temperature:** 10 – 40 °C

**Measuring range:** 0,05 - 25 °dH / 0.89 to 448 ppm CaCO<sub>3</sub>

**User power supply:** Switched power supply with 4 A fuse-protected

**Durability relay:** DC: 8 A at 30 V or 0,28 A at 250 V; AC: 8 A at 415 V

**Current loop:** 0/4 – 20 mA, max. load 500 ohm corresponding to 10 V voltage, voltage isolated

**Dimensions:** W x H x D = 380 x 480 x 280 mm

**Weight:** approx. 9,0 kg

The device is power-failure protected.

### Water connection

**Working pressure:** 11 to 8 bar / 1x10<sup>5</sup> to 8x10<sup>5</sup> Pa or 0,3 to 1 bar / 0,3x10<sup>5</sup> to 1x10<sup>5</sup> Pa (after removing of the valve body out of the regulator/filter housing)

**Water temperature:** 10 – 40 °C

**Water intake:** Opaque hose with 6/4x1 mm external diameter

**Water drain:** Hose with internal diameter 12 mm