

NEW FEATURES

IN COMPARISON WITH TESTOMAT ECO®

- 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

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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 CaCO₃

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

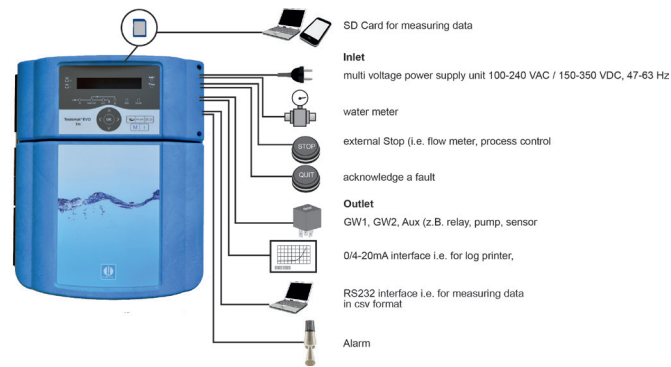
- Water treatment plants
- Industrial boilers
- Monitoring of process water
- Drinking water systems
- and much more

PARAMETER/INDICATOR TYPE

UNIT	TH 2005	TH 2025	TH 2100	TH 2250
°dH (resolution)	0,05 - 0,50 (0,01)	0,25 - 2,50 (0,05)	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)	1,8 - 17,9 (0,4)	4,5 - 44,8 (1,0)
ppm CaCO₃ (resolution)	0,89 - 8,93 (0,2)	4,5 - 44,8 (0,9)	18 - 179 (3,8)	45 - 448 (10)
mmol/l (resolution)	0,01 - 0,09 (0,01)	0,04 - 0,45 (0,01)	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: IP65

Conformity: EN 61326-1, EN 61010-1 

Ambient temperature: 10 – 40 °C

Measuring range: 0,05 - 25 °dH / 0.89 to 448 ppm CaCO₃

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 / 1x10⁵ to 8x10⁵ Pa or 0,3 to 1 bar / 0,3x10⁵ to 1x10⁵ 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