



TRV Sensors Range overview

Fact
N° 19

ENERGY
INSIGHTS

Replacing old thermostatic sensors (more than 20 years old) with modern ones, can achieve energy savings of up to 7%.

IMI Heimeier

Founded in 1928 in Germany IMI Heimeier offers a range of products that you can trust to achieve comfortable and energy efficient indoor climates. Precise temperature control devices as well as innovative radiator valves have made IMI Heimeier one of the most recognized innovators in the HVAC industry for over 90 Years.

Over time IMI Heimeier products have been standing for:

- Energy efficient solutions
- Quality materials for durability
- Reliable performance
- Fit and forget installation

The IMI Heimeier range of Thermostatic Sensors addresses the needs of various system designs:

- for all thermostatic valve bodies
- for connected smart home solution
- for radiators with integrated valves
- for blended solutions: Under floor heating & radiators couplings and connections are also available

**Breakthrough
Engineering**



What makes an IMI Heimeier Thermostatic head **so unique?**

In order to guarantee accurate performance we build our IMI Heimeier Thermostatic sensors with great care for quality and precision.



- 1 Liquid-filled thermostat allows for precision control and stable temperature regulation



- 2 Limiting or locking of a setting allows to set maximum and minimum temperatures and helps to reduce heating costs



- 3 Superior pressure power and a strong spring ensure the valve will not stick after non-use during the summer months



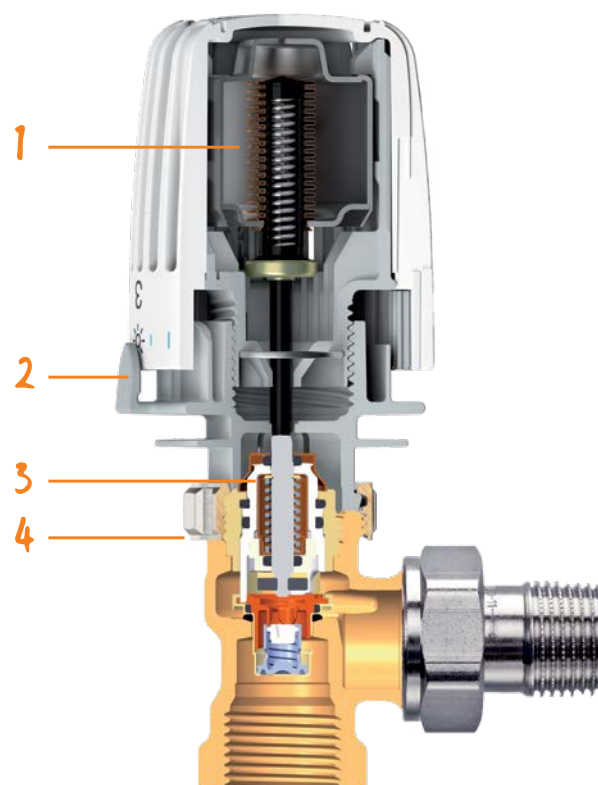
- 4 The never changed **M30x1.5** connection ensures that every IMI Heimeier sensors fits any valve we have ever produced



- 5 Designed and manufactured in Germany for highest quality standards. IMI Heimeier Thermostatic sensor are built with highly resistant materials to guarantee constant quality and an extended life cycle of our products. 3rd party certifications and performance control guarantee an optimal user experience



- 6 Compatible with European Energy Performance of Buildings Directive (EPBD). Allows to achieve energy savings by optimizing and regulating system performance



Certified and tested by KEYMARK in accordance with DIN EN 215 (Series D and F)
KEYMARK symbol approval number 011-6T 0006

K-Head

The choice for best performance available with a large choice of features

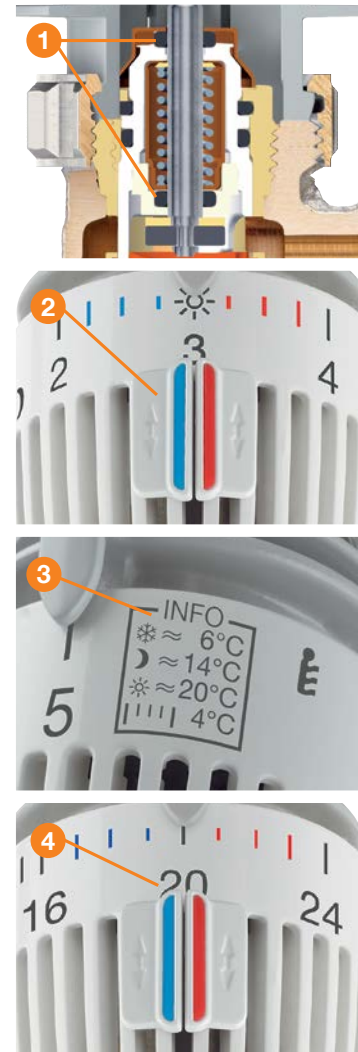
Performance	● ● ● ● ●
Design	● ● ● ● ○

In addition to the features common to all IMI Heimeier thermostatic heads the K Head features:

- 2 Energy saving clips to mark, limit or block temperature setting ②
- 2 additional internal clips for hidden limiting or blocking of temperature preventing external intervention of settings
- Symbols for easy basic setting and nighttime set back
- Data Field explaining most important settings ③
- Ease of use of head thanks to smooth rotation and comfortable haptics
- Rotation direction indicator through colour red and blue coding
- Markings designed for the visually impaired

Available options:

- Eco Mode
- Choice of temperature or number setting printing ④
- Remote sensor
- Direct connection to thermostatic valve bodies from other manufacturers without adaptor (Danfoss, Vaillant)
- Theft protection
- Also available in Black and Grey
- Partner clip allows for customization and installer branding
- Variable base temperatures ranges



DX-Head

The prefect balance of design & technology

Performance	● ● ● ● ○
Design	● ● ● ● ○
Target market	Public & commercial buildings

In addition to the features common to all IMI Heimeier thermostatic heads the DX Head features:

- Reduced size in length and diameter allows for application in small spaces and is comfortable to use
- Liquid-filled thermostat with high pressure power and precision control
- Closed design makes the head suitable for installation with high hygiene standards ①
- Limiting or locking of a setting with external clips

Available options:

- Direct connection to thermostatic valve bodies from other manufacturers without adaptor (Herz, TA-Valves)
- Available in graphite grey and white



Halo head

The high design head

Performance	● ● ● ● ○
Design	● ● ● ● ●
Target market	Decorative radiators

In addition to the features common to all IMI Heimeier thermostatic heads the Halo Head features:

- Slim, cylindrical design for appealing looks ①
- Locking of temperature setting by locking slider ②
- Totally closed and sides and smooth surfaces make Halo particularly suitable for hygienically demanding areas ③

Available options:

- Available in white and chrome
- Choice of temperature or number setting printing
- Multilux 4 Available with Multilux 4 Dx and Halo Head ④



Halo-B head

The heavy duty design head



Performance	● ● ● ● ○
Design	● ● ● ● ●
Target market	Public & commercial buildings

Safety and security characterize the new B-Halo head:

- Theft protection thanks to hidden access
- Flexural strength of the thermostatic head up to 1000 N
- Temperature locking function for constant temperature setting
- With special key and without removing the protection cap for temperature setting
- Protection cap can be turned endlessly for product longevity
- Liquid-filled thermostat with high pressure power and precision control
- Combining the minimalistic design with extra robustness even in the toughest environments ①



F-Head

The solution for remote control

- Applicable when a direct connection to the radiator does not allow accurate measurement of temperature i.e. when radiators are covered or hidden
- May be installed at an outlet box
- Liquid-filled thermostat with high pressure power and precision control
- Symbols for basic setting and nighttime set back
- Brief data including the most important settings
- Rotation direction indicator
- Partner clip allows for customization and installer branding

Performance	● ● ● ● ●
Design	● ● ● ● ●
Target market	Applications where emitter is covered



D-Head

The compact quality

- Reduced size in length and diameter allows for application in small spaces and is comfortable to use
- Liquid-filled thermostat with high pressure power and precision control
- Limiting or locking of a setting
- Product for project business
- Open design for optimal temperature control precision

Performance	● ● ● ● ●
Design	● ● ● ○ ○



D-U Head

Reliable quality

- Liquid-filled thermostat with high pressure power and precision control
- External clips allow for temperature setting
- Reduced size in length and diameter allows for application in small spaces and is comfortable to use
- Product for project business
- Closed cap makes the product suitable for demanding environments for hygiene
- Rotation direction indicator

Performance	● ● ● ● ●
Design	● ● ● ● ●



S-Head

The budget quality solution

- Reduced size in length and diameter
- Liquid-filled thermostat with high pressure power and precision control
- Limiting or locking of a setting
- Product for project business
- Open design for optimal temperature control precision

Performance	● ● ● ● ●
Design	● ● ● ● ●



WK Head

Designed for radiators with integrated valves

- Flexible mounting:
 - For mounting on the left or right of the radiator
 - Flexible adjustment to allow that the head is in ideal position
 - Front facing head for ease of use
 - Ideal for renovations when flexibility is required
- Liquid-filled thermostat with high pressure power and precision control
- With 2 clips for marking, limiting or blocking
- Open design for optimal temperature control precision

Technology	● ● ● ● ●
Design	● ● ● ● ●



Aura Connect

The Smart home system

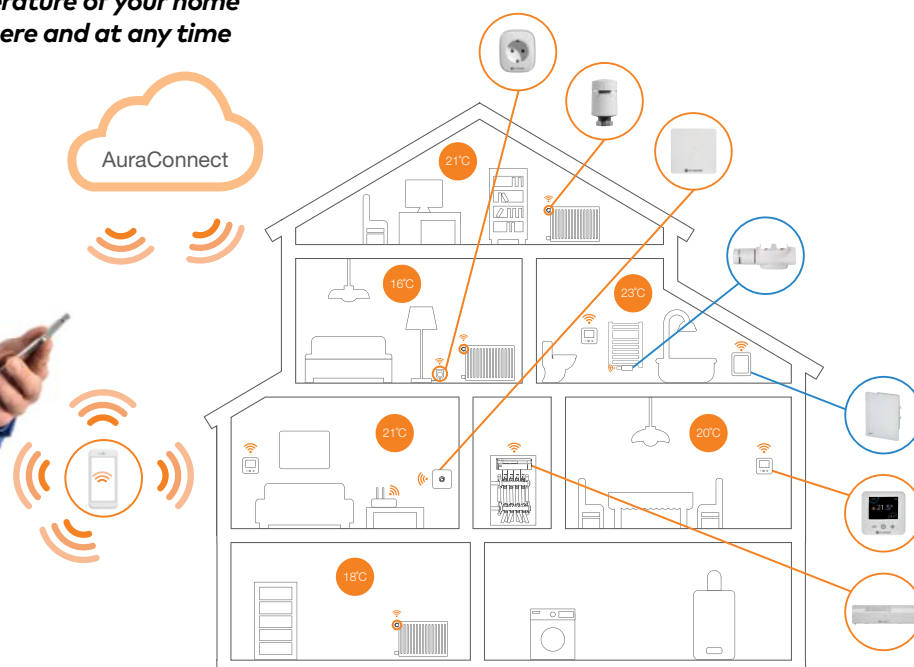
Performance	● ● ● ● ●
Design	● ● ● ● ●
Target market	Residential

Our smart solution for optimal comfort and energy savings:

- Easy to install and to commission
- Auto, manual, timer and absence modes for convenient use
- Mobile and intuitive use through app
- PI Regulation for optimal energy use
- Available with boiler connection
- High data security of app and software
- For up to 16 Zones and 32 terminal units per central unit
- Compatible with Alexa and Google Assistant
- Long battery life of components
- Energy saving



App control Allows to control the room temperature of your home from anywhere and at any time



RTL

The return temperature limiter

Technology	● ● ● ● ●
Design	● ● ● ● ○
Target market	Radiant individual zone control

- The solution for radiators or combined radiator and under floor heating for small surfaces
- Models with presetting and automatic flow limitation (AFC)
- Body made of corrosion-resistant gunmetal
- Stainless spindle with double O-ring seal
- Outer O-ring can be replaced while under pressure
- Concealed limiting or blocking using stop clips
- Partner clip allows for customization and installer branding



Emo-T

High performance thermoelectric actuator

- High adjusting force and long stroke for reliable and versatile operations
- High enclosure class IP54 (NEMA 3 equivalent) for secure operations at any installation positions
- Position indicator visible from all sides for straightforward maintenance
- M30x1.5 connection: Compatible with TA or HEIMEIER valves and floor heating manifolds with a M30x1.5 connection to the actuator

Technology	● ● ● ● ○
Design	● ● ● ● ○
Target market	Residential



Emo-TM

The modulating control solution for commercial zones

- Automatic adaptation to actual valve stroke for optimum control characteristics.
- Adaptation to control voltage according to wiring only one model for all common control voltages.
- High adjusting force and long stroke for reliable and versatile operations.
- Position indicator visible from all sides for straightforward maintenance

Technology	● ● ● ● ○
Design	● ● ● ● ○
Target market	Residential



EMOtec

Thermal actuator

- Compact sizes especially suited to manifold cabinets
- Simple functional testing by means of position indicator (with NC model)
- Safe because of overvoltage protection (with 230 V model)
- Trouble-free because it is silent and needs no maintenance

Technology	● ● ● ● ○
Design	● ● ● ○ ○
Target market	Commercial



Thermostatic sensors

range overview

	Thermostatic Head						
	K	Halo	DX	D	D-U	B	F
Temperature range [°C]	6-28 0-28 15-35 6-xx *	6-28 0-28	6-28	6-28	6-28 16-28	8-26	0-27
Frost protection	✓	✓	✓	✓	✓	✓	✓
0 position	✓	✓					
Connection	Heimeier M30x1,5	Heimeier M30x1,5	Heimeier M30x1,5	Heimeier M30x1,5	Heimeier M30x1,5	Heimeier M30x1,5	Heimeier M30x1,5
Clamp connection (DF connection)	✓		✓				
Color clips / Partner clips possibility	✓						✓
Partner clips	✓						
Limiting of a temperature	With economy clips or covered stop clips		With stop pin	With stop pin	With stop pin		With covered stop clips
Locking of a temperature	With economy clips or covered stop clips	With locking slider	With stop pin	With stop pin	With stop pin	With setting key	With covered stop clips
Theft protection	With security ring or 2 screws					With 2 screws	
External sensor	✓						✓
Special features	Low water temperature influence and hysteresis. Brief data including the most important settings. Markings for the visually impaired.	Slym, cylindrical design.	Particularly suitable for hygienically demanding areas. Reduced size in lenght and diameter.	Reduced size in lenght and diameter.	Reduced size in lenght and diameter.	Flexural strength of the thermostatic head up to 2000 N. Infinitely variable temperature setting using a special key without removing the protection cap.	Brief data including the most important settings.

*) Models with staggered/limited setting range.

IMI Heimer Thermostatic radiator valves

Thermostatic valves are the perfect combination

IMI Heimeier Thermostatic radiator sensors and valves are a winning team for ideal indoor comfort and optimized energy consumption.

There are many advantages in using the combination of our Heimeier products:

- Easy installation and setting
- Never changed M30x1.5 connection for easy replacement and renovation
- Certified and reliable long lasting quality for a long system life-cycle and maintenance free operations



Eclipse

Key features

- > **Integrated flow limiter**
Eliminates overflows
- > **Easy adjustment**
Just a twist to reach design flow
- > **Flow range from 10 to 150 l/h**
For high flexibility
- > **Perfect for renovation**
Standard dimensions and easy flow sizing
- > **All flow bodies with II+ marking can be retrofitted as Eclipse**
i.e. V-exact II, Standard, Multilux, Multilux 4-Set



V-exact II

Key features

- > **Stepless precision presetting**
- > **Large flow range**
- > **Optimised noise performance**
- > **Suitable for systems with normal to high temperature spread**



Calypso TRV-3 (for the Nordic countries)

Key features

- > **Suitable for radiators in heating systems and for small cooling terminals**



Calypso Exact

Key features

- > **Stepless precision presetting**
- > **Large flow range**
- > **Optimised noise performance**
- > **Very low flow tolerances**



Calypso

Key features

- > **Double O-ring seal**
For durable and maintenance free operation
- > **Without presetting**
- > **Thermostatic insert replaceable under pressure**
with DN 10 to DN 20

User benefits

IMI Heimeier meet the expectations of all our customers:

Installers:

- Easy to install with a fit and forget approach
- Compatibility of solutions in never changed M30x1.5 connection
- Satisfied customers and no emergency interventions

Consultants:

- A comprehensive range of solution to meet any building design need
- High product reliability for optimal system performance

End users and building owners:

- Precise room temperature control for ideal indoor comfort
- Optimized energy consumption
- A wide choice of solutions

Facility managers:

- High quality materials grant product longevity
- Available with temperature locking, theft proof option as well as high resistance products
- Continuity in product range and product connections with all products allow for easy long-term maintenance

For more information
please visit our website:
www.imi-hydronic.com