



Pressure and
Temperature Measurement

New thermowells for temperature measurement in sterile process technology

Klingenberg, January 2009.

A new type of thermowell for the process adaptation of electrical and mechanical thermometers in sterile process technology has been developed by WIKA for national and international markets. This development has incorporated specific customer requests from the food, beverage and pharmaceutical industries.

The thermowell model TW22 is available both with all standard connection variants, for example milk thread fitting and clamp connection, and with aseptic connection to DIN 11 864 or the specially developed welding ball. Ideally, it can be combined with the TR22 resistance thermometer, which protects the sensor from rough process conditions.

In combination with the TR22 resistance thermometer, the connection head plus measuring insert can be pulled out. This allows the thermometer to be calibrated along with the entire measuring chain – without disconnecting the electrical connections. As this also avoids opening the process environment, the hygienic risk is drastically minimised.

The TW22 thermowell can of course also be combined with mechanical thermometers or temperature switches. It is installed in a fitting using a suitable hygienic connection. The welding ball allows the thermowell to be welded directly into a pipeline or a tank. A rotating fitting allows the respective connection head or the display to be aligned in the desired direction.

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press release

WIKA company photograph:

TW22 thermowell for temperature measurement under rough process conditions, on the left with aseptic connection to DIN 11864-1, on the right with welding ball. Further connection variants are available.



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