

Extension Socket for Temperature Probe Pairs



Noticeably efficient

- Complete solutions for measuring heat and cold quantities
- Tamper-proof and cost-effective installation
- Flexible handling, regardless of the circumstances at the installation site
- Connection option for multiple measurement with large nominal widths
- Reduction of maintenance times and costs due to the one-time installation of the cable to the arithmetic unit



Brief overview

A market innovation is an extension socket for temperature probe pairs that are used in heat and cold meters. The extension socket is approved for all JUMO temperature probes in the type examination certificate and enables the temperature probe pairs to be extended from two-wire to four-wire technology. It can also be sealed to make sure the extended installation is tamper-proof. The new extension socket now allows long distances to be bridged while still maintaining proven measuring accuracy.

The cost-effective installation of the extension socket reduces follow-up costs and maintenance times for new installations. These follow-up costs arose in the past due to the probe changes that were required on a regular basis.

Furthermore, thanks to the extension socket, four-fold measurement in various temperature layers is also possible. This is recommended, for example, for large pipe sizes and small flow velocities (cp. DIN EN 1434 part 6). The temperature probe as well as the cable probe and the probe with the terminal head can easily be switched via the extension socket (see figure). The overall-resistance average value of all four temperature probes is formed through the electrical circuit.

The extension socket's dimensions are 84 × 84 × 39 mm. It has protection type IP55, and it can be used at ambient temperatures of -15 to +60 °C.

Connection diagram of a multiple measurement (electrical circuit average value)

