

TSUP: Room-temperature transducer

For measuring the room temperature in occupied rooms; used in conjunction with pneumatic *centair* control systems. Conforms to the regulations on pressure equipment (97/23/EG Art. 3.3).

Housing plinth of anthracite-grey (RAL 7016) light alloy; force—balance system with nozzle-ball. Bimetal measuring element. Cover of thermoplastic with pure-white (RAL 9010) front plate; compres-sed air supplied via push-on connector for soft plastic tubing of Ø 4 mm internal diameter. Measurement connection M4.

| Туре | Measuring range °C 535 | | Output pressure bar | Weight kg |
|--|------------------------------|----------------------|---------------------------|--------------|
| TSUP 1 F001 | | | 0.21.0 | 0.17 |
| Supply pressure 1) via external restrictor | or Ø 0.2 mm | 1.3 ± 0.1 bar | Permissible ambient temp. | 070 °C |
| Air capacity, air consul | mption | 33 l _n /h | Connection diagram | A02781 |
| Linearity | | < 2% | Dimension drawing | M303048 |
| Time constant (0.2 m/s | s) | 5 min | Fitting instructions | MV 23153 |



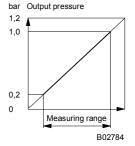
0296218 000* Buckle-proof adaptor for push-on fitting.

0296990 000* Buckle-proof adaptor for screw-type fitting; see MV 7322.

0303124 000* Recessed junction box. 0310315 000* Surface junction box.

*) Dimension drawing or wiring diagram are available under the same number

In the RCP and RPP 20 controllers, the restrictors (Ø 0.2 mm) are fitted at inputs 3 and 4. See Section 60 on regulations concerning the quality of supply air, especially at low ambient temperatures.



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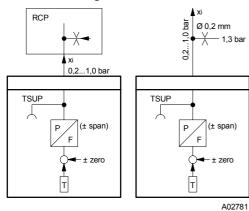
Operation

As the temperature rises, the bimetal strip bends and exerts a corresponding force on the nozzle-ball system. This converts the force into a pressure change. The output pressure increases as the temperature rises.

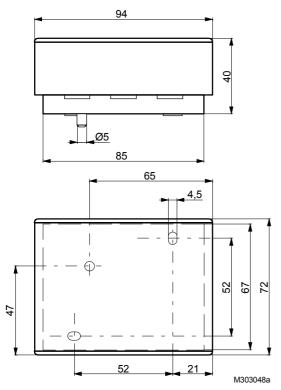
Technical information

Technical manual: centair system 304991 003

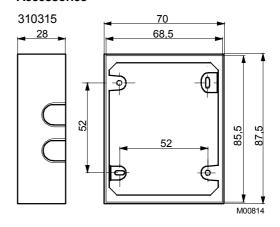
Connection diagram

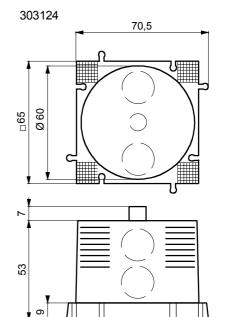


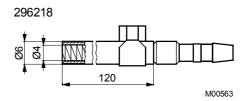
Dimension drawing



Accessories







M00815

