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Product info sheet no. F 5.1
Accessories
Filters and mounting supports

Description
The products on this info sheet are used for adapting sensors to the different places of application.
Filters protect the sensor against mechanical damage resulting from particle bombardment at relatively high air speeds and damaging deposits. The filters also keep harmful gases from the sensor. Deposits of oil and grease on the filter lead to corrupted measurements which can be rectified by changing the filter.

User instructions
Filters, and in particular sintered filters, change the dynamic behaviour of the sensors. Wet filters yield corrupted measurements until they have dried out fully.
To avoid corrosion we recommend to treat the threads of filters ZE20...ZE22 slightly with acid-free grease.

Mounting supports

ZA20: Attachment plate, suitable for mounting sensors of Ø 20 mm in ventilation ducts at up to 80°C.

ZA24: Attachment plate, suitable for mounting sensors of Ø 15 mm in ventilation ducts, at up to 200°C. (stainless steel base plate with with brass screw connections).

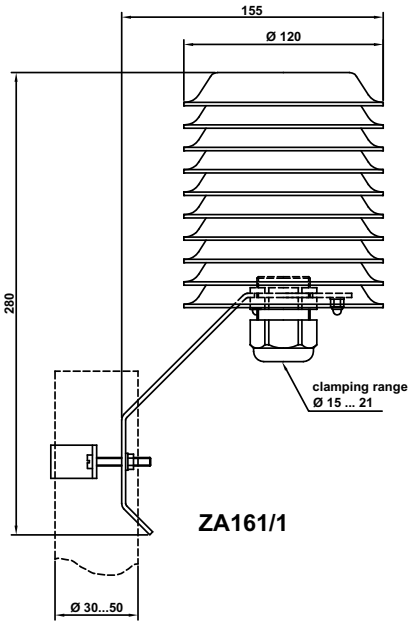
ZA 25: Attachment plate completely made of stainless steel, suitable for mounting sensors of Ø 15 mm, in ventilation ducts at up to 100°C. (stainless steel base plate with stainless steel screw connections).

ZA30: Mounting kit for a built-on humidity switch, comprising adhesive strips and heat conductivity paste, for mounting smooth surfaces.

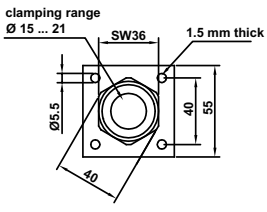
ZA161/1:
Weather guard, protects the sensors from product info sheet no. C 2.4 outdoors against rainfall and sun light.

Wall console 20.009:
for mounting sensors Ø 20mm to walls

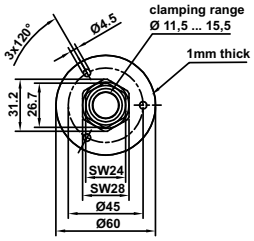
Dimensions



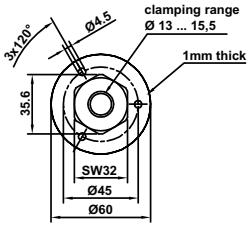
ZA161/1



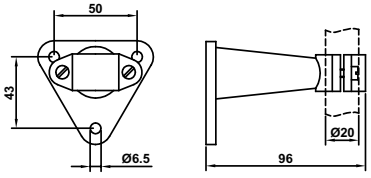
ZA20



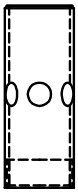
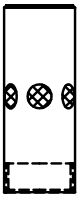
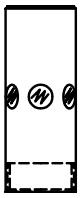
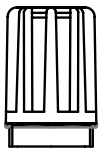
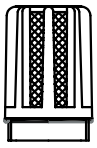
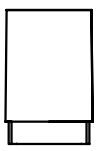
ZA24

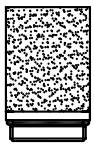
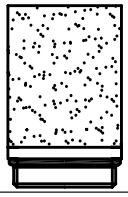
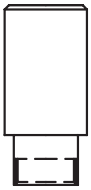
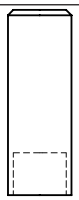
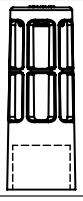


ZA25



Console for wall mounting **20.009**

Filter	***Diagram***	***Description***	***Response time Humidity*** at v= 1.5 m/s
ZE13		Sintered high-grade steel filter coarse-pored for sensor tubes of Ø 15mm. Protects the sensing element at high air speeds and in very dusty conditions. Ø 15 x 33, M 14x1 Employable: -60...200°C	**< 1,5 min**
ZE04		High-grade steel filter open for sensor tubes of Ø 15mm. Ø 15 x 39, M 14x1 Employable: -80...250°C	**20s**
ZE15		High-grade steel filter with gauze for sensor tubes of Ø 15mm. Suitable for low air speed and clean, non-aggressive atmosphere. Ø 15 x 39, M 14x1 Employable: -40...200°C	**< 1 min**
ZE26		High-grade steel filter with gauze and membrane for sensor tubes Ø 15mm. Protects against aerosols. Ø 15 x 39, M 14x1 Employable: -40...150°C (max. 1h 200°C)	**< 2 min**
ZE16		Protective plastic basket for sensor tubes of Ø 20mm, open, conductive metallized finish, suitable for low air speed and clean, non-aggressive atmosphere. Ø 20 x 25, M 18x1 Employable: -40...80°C	**< 20 s**
ZE17		Same as type ZE 16, except that it has an inserted filter gauze made from high-grade steel, for protection against coarse dirt. Ø 20 x 25, M 18x1 Employable: -40...80°C	**< 1 min**
ZE18		Sintered filter made from fine-pored PTFE for sensor tubes of Ø 20mm, for use in extreme conditions. Note: If this filter is used, some sensors will not meet the EMC directive EN 50082-2. Ø 20 x 25, M 18x1 Employable: -50...150°C	**< 3 min**
ZE20		Membrane filter for use outdoors for sensor tubes of Ø 20mm, v up to approx. 10m/s , protects against aerosols. Ø 20 x 25, M 18x1 Employable: -40...80°C	**< 1,5 min**

Filter	*Diagram*	*Description*	*Response time Humidity* at v= 1,5 m/s
ZE21		Fine-pored sintered filter made from high-grade steel for sensor tubes of Ø 20mm, v up to approx. 20m/s. Protects the sensing element at high air speeds and in very dusty conditions. Ø 20 x 25, M 18x1 Employable: -50...150°C	**< 1,5 min**
ZE22		Same as ZE21 except coarse-pored and dynamic, somewhat faster, v up to approx. 20m/s Ø 20 x 25, M 18x1 Employable: -50...150°C	**< 1,5 min**
ZE28		High-grade steel filter ZE14 with a mounted sintered filter made of fine-pored PTFE (ZE18), for sensor tubes Ø 15mm, for extreme applications. Ø 20 x 37, M 14x1 Employable: -50...200°C	**< 3 min**
ZE05		Sintered filter made from fine-pored PTFE for sensor tubes of Ø 12mm, for use in extreme conditions. Ø 12 x 35, M 10x0,75 Employable: -50...150°C	**< 3 min**
ZE07		Protective plastic basket for sensor tubes of Ø 12mm, open, suitable for low air speed and clean, non-aggressive atmosphere. Ø 12 x 33, M 10x0,75 Employable: -40...85°C	**< 20 s**
ZE08		Membrane filter for use outdoors for sensor tubes of Ø 12mm, v up to approx. 10m/s, protects against aerosols and dust. Ø 12 x 33, M 10x0,75 Employable: -40...85°C	**< 1,5 min**