

Technical data sheet

22MT-14.

Average Temperature Sensor

Active sensor (4...20 mA) for measuring the averaging temperature in duct applications. IP65 / NEMA 4X rated enclosure. Supplied with one continuous sensing element across the whole length of the probe to ensure optimum accuracy and eliminate air stratification problems.





Type Overview

Туре	Output signal active temperature	Probe length	
22MT-144	420 mA	3 m	
22MT-145	420 mA	6 m	

Technical Data

Electrical data	Power supply DC	1524 V	1524 V, ±10%, 0.5 W			
	Electrical connection	Remova 2.5 mm²	Removable spring loaded terminal block max 2.5 mm ²			
	Cable entry	Cable gla	and with strain	relief Ø68 m	nm	
Functional data	Multirange	8 measu	8 measuring ranges selectable			
	Output signal active note	Current	Current output: max. 500 Ω load			
	Application	Air	Air			
Measuring data	Measuring values	Temperature				
	Measuring range temperature					
		Active se	ensor: range se	lectable	ectable	
		Attention: max. measuring temperature is restricted by max. fluid temperature (see Safety data)		re is		
				see		
		Setting	range [°C]	range [°F]	Factory setting	
		S0	-5050°C	-30130°F	5	
		S1	-10120°C	0250°F		
		S2	050°C	40140°F		
		S3	0250°C	30480°F		
		S4	-1535°C	0100°F		
		S5	0100°C	40240°F		
		S6	-2080°C	4090°F	~	
		S7	0160°C	0150°F		
	Accuracy temperature active	±0.5°C @ 21°C [±0.9°F @ 70°F] typical 100 s @ 0 m/s				
	Time constant t (63%) in the air duct					
Materials	Cable gland	PA6, bla	PA6, black			
	Housing	Cover: Lexan, orange				
		Bottom:	Bottom: Lexan, orange			
		Seal: 04	67 NBR70, blac	ck		
		UV resis	tant			



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Safety data	Ambient humidity	Max. 95% r.H., non-condensing
	Ambient temperature	-3550°C [-30120°F]
	Fluid temperature	-5080°C [-60175°F]
	Housing surface temperature	Max. 70°C [160°F]
	Protection class IEC/EN	III Protective extra-low voltage (PELV)
	Protection class UL	UL Class 2 Supply
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1
	Degree of protection IEC/EN	IP65
	Degree of protection NEMA/UL	NEMA 4X
	Quality Standard	ISO 9001

Safety notes



This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorised modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

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General remarks concerning sensors	Sensing devices with a transducer should always be operated in the middle of the measuring range to avoid deviations at the measuring end points. The ambient temperat of transducer electronics should be kept constant. The transducers must be operated at a constant supply voltage (±0.2 V). When switching the supply voltage on/off, onsite power surges must be avoided.		
Build-up of Self-Heating by Electrical Dissipative Power	Temperature sensors with electronic components always have a dissipative power which		
Scope of delivery			
Scope of delivery	Description	Туре	
	Mounting plate S housing Mounting kit, with mounting brackets	A-22D-A09 A-22D-A08	
Accessories			

Optional accessories

Description

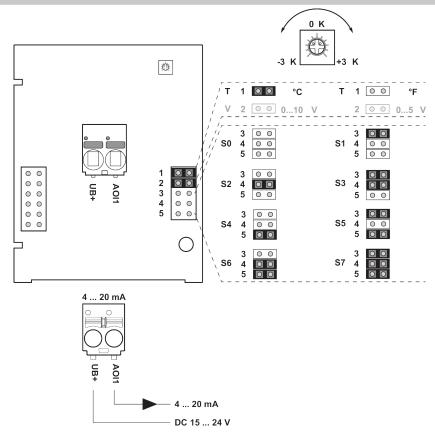
Connection adapter, M20, for cable 1 x 6 mm, Multipack 10 pcs.

Type A-22G-A01.1





Wiring diagram



The adjustment of the measuring ranges is made by changing the bonding jumpers. The output value in the new measuring range is available after 2 seconds.

Setting	range [°C]	range [°F]	Factory setting
S0	-5050°C	-30130°F	
S1	-10120°C	0250°F	
S2	050°C	40140°F	
S3	0250°C	30480°F	
S4	-1535°C	0100°F	
S5	0100°C	40240°F	
S6	-2080°C	4090°F	~
S7	0160°C	0150°F	



Dimensions

