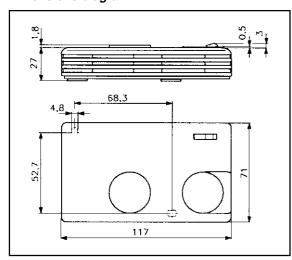
Mess- und Regeltechnik GmbH Humidity measurement technology

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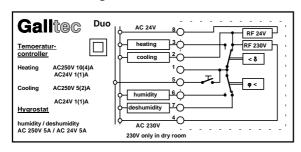




Dimensions diagramm



Connection diagram



Type Survey

measuring range temperature	measuring range humidity	order no.
+10+35°C	30100%rh	42341361
+10+60°C	30100%rh	42381361

NOTE:Contact with the inner parts nullifies the guarantee.

Room Hygro-thermostat DUO

measuring range for humidity 30...100%rh measuring range for temperature 10..35°C or 10..60°C

Application

The hygro-thermostat type DUO is used as a on-off controller to control the relative air humidity and the temperature in air-conditioning units and climatic cabinets, to control air humidifiers and dehumidifiers and for the dehumidification control in swimming halls. Other areas of use are storage of foodstuffs and luxury foods, cooling rooms for fruit and vegetables, greenhouses for gardening use, the textile industry, the paper and printing industry, the film industry and hospitals. The hygrothermostat DUO can be used almost anyshere that air humidity has to be regulated or monitored.

Technical Data

measuring range for humidity					
measuring range for	measuring range for temperature 1035°C/1060°C				
	measuring accuracy±3,0%				
range of operation					
		50%rh ca. 4%rh			
		50%m ca. 4%m			
switching difference for temperature					
		35°Cca. 0,6K			
		.60°Cca.2,0K			
max voltage		250 V AC			
!!Caution: 250 V only on condition that there is no build-					
up of condensate in the measuring head - otherwise					
	voltagearcing may result.				
breaking capacity, ohmic load for humidity					
breaking capacity,	bumidify	2A, 250V AC			
		5A, 250V AC			
		0,2A (cos phi min 0.8)			
breaking capacity,		10A ref. to 250VAC			
		4A (cos j min 0.8)			
contactac for humidit	y	changeover contact			
contact for temperaturechangeover co					
switch		mains ON/OFF			
allowable ambient temperature					
medium temp. coefficient0.2%/K relative to 20°C and 50%rh					
		15m/sec			
T _{.05} at v=2m/sec					
		DI 220 V AC and 24 V AC			
electromagnetic compatibility EMC immunityref. EN50 082-2					
		ref. EN 50 081-2			
mounting position		ferably with ventilation			
slots at right angles to direction of airflow					
mounting		wall mounting			
contact	connecting t	erminals in the housing			
housingplastic					
protective system		IP20			
		117x71x28mm			
weightca. 0.15 kg "technical modificationrights reserved"					
teorinical modificationing its reserved					

Maintenance

The measuring element is maintenance-free in pure ambient air. Aggressive media containing solvent can cause measuring errors and failure, depending on the type and concentration. As with almost all humidity measuring elements, deposits which eventually form a water-repellent film over the sensor are harmful. Such substances are resin aerosols, lacquer aerosols, smoke deposits etc.

This information is based on current knowledge and is intended to provide details of our products and their possible applications. It does not, therefore, act as a guarantee of specific properties of the products described or of their suitability for a particular application. It is our experience that the equipment may be used across a broad spectrum of applications under the most varied conditions and loads. We cannot appraise every individual case. Purchasers and/or users are responsible for checking the equipment for suitability for any particular application. Any existing industrial rights of protection must be observed. The perfect quality of our products is guaranteed under our General Conditions of Sale. Issue: March 1998 DUO_E. This issue supersedes all previous technical leaflets.