

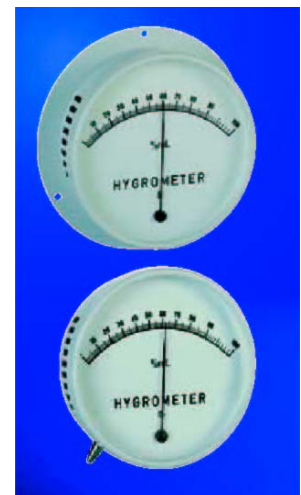
Round hygrometers • Built-in hygrometers • Psychrometers
Humidity sensors • Humidity temperature sensors

As measurement element for our humidity measuring applications a special prepared hair is used. Hairs are reacting on hygroscopic, that means they change length under influence of humidity. The changing is a dimension for relative humidity. The dryer the hair, the faster the reaction. They show a higher value. For exact measurement a regeneration phase have to take place.

Round hygrometers

Indicating instrument for measuring of relative humidity. Different designs.

Technical datas		Ordernumber
Design	Table housing	5010...
	Housing with assembly flange	5011...
Measurement element	Measurement range	
	H K	10 ... 100% r.H. 0 ... 100% r.H.
Scale range	0 ... 100% r.H.	
Accuracy	± 3 % r.H.	
Division	1% r.H.	
Scale caliber	100 mm	
Ambient air temp.	- 60 ... +70 °C (H)	
	0 ... +70 °C (K)	
Housing height	34 mm or 36 mm	
Weight	0,25 kg	



Built-in hygrometers

Round hygrometers, axial mounted measurement element on the backside of the housing. For installation in ventilation ducts or clima ducts.



Technical datas		Ordernumber
Immersion length	100 mm	5020
	250 mm	5021
Measurement element	Measurement range	
	H K	10 ... 100% r.H. 0 ... 100% r.H.
Scale range	0 ... 100% r.H.	
Accuracy	± 3 % r.H.	
Division	1% r.H.	
Scale caliber	100 mm	
Ambient air temp.	-60 ... + 70 °C (H)	
	0 ... + 70 °C (K)	
Flange caliber	120 mm	
Immersion caliber	16 mm	
Built-in thread	R 1/2.	
Weight	ca. 0,45 kg	

Psychrometers

Aspirations-Psychrometer according to Assmann

Transportable, robust, handy standard measurement application for psychrometrical humidity measurement. Is used as reference device for air humidity measuring applications. The used thermometers are calibrateable and according to DIN 58661. They have a blue backgrounded capillary and a clear scale print. A humidifier and an index with psychrometrical values is included. The application is delivered in a suitcase.

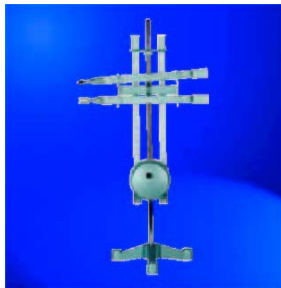
Technical datas		Ordernumber
Measurement range	- 10 ... + 60 °C	50400101
Division	0,2 °C	
Accuracy	± 0,2 K, for thermometers	
Aspirator	Clip drive	
Measurement time	ca. 8 min (=4 ... 2 m/s)	
Dimensions	Ø 90 x 420 mm	
Weight	3,5 kg	



Normal psychrometers according to August

Standard measurement application for use in Weather or thermometer huts, the application consists of:

- 2 Psychrometrical thermometers a. DIN 58660
- 1 Maximum thermometers a. DIN 58654
- 1 Minimum Thermometers a. DIN 58653
- 1 Aspirator with clip drive
- 1 index with psychrometrical values
- 1 humidifier
- as well as with tripod and clamp.



Technical datas		Ordernumber
Type of thermometer	Measurement range	50400201
Psychrometer	- 30 ... + 50 °C (± 0,2 K)	
Max. thermometer	- 30 ... + 50 °C (± 0,2 K)	
Min. thermometer	- 40 ... + 40 °C (± 0,3 K)	
Division	0,2 °C / 0,5 °C	
Total height	550 mm	
Weight	2,6 kg	

Spin psychrometers

Simple but robust Application, for which the needed air ventilatioin is reached by spinning. The needed humidifier and index with psychrometrical values is included.



Technical datas		Ordernumber
Measurement range	- 10 ... + 60 °C	50400301
Accuracy	± 0,2°C	
Division	0,2 °C	
Dimensions	305 x 60 x 22 mm	
Weight	0,42 kg	

Humidity Data Logger

For measurement and registration of the relative air humidity. The registration is made on a paper strip, which is manually rolled on a drum winder via spring winding according to DIN 8300 and DIN 58658 or via quartz movement (1/7/31 days). The delivery includes a set of paper strips and fiber nib.

Technical datas		Ordernumber
Registration time 1 day / 7 days 14 days / 31 days 1 / 7 / 31 days	Feed 11,45 mm/Std, 40 mm/ day 20 mm/ Tag, 9 mm/ day dto.	5050... 5051... 5052...
Measurement range 10 ... 100% r.H. 0 ... 100% r.H.	Measurement element H (- 35 ... + 70 °C) K (0 ... + 80 °C)	...1... ...2...
lockable	No Yes	...001 ...101
Scale range Accuracy	0 ... 100% r.H. ± 2 % r.H. (H) ± 3 % r.H. (K)	
Writing width Division Ambient temp.	82 mm 5% r.H. - 35 ... + 80 °C (spring winder) - 20 ... + 60 °C (quartz mov.)	
Dimensions Weight	280 x 140 x 214 mm 2,2 kg	



Humidity-Temperature Data Logger

Registrating Application. The housing consists of a plastic-metall combination. The axis of the measurement movement are built-in into pins. Two executions of drum winder are deliverable:

1. mechanical drum winder with manuall winding for temperature ranges from -35...+80°C.Ouarzwehrwerk mit 1,5 V
2. Battery-powered (LR6A) quartz-steered step motor drum winder with swithcable feed in temperature ranges from -20...+60°C.

The delivery includes a set of 100 pcs. paper strips.



Technical datas		Ordernumber
Registration time 1 day / 7 days 14 days / 31 days 1, 7, 31 days	Feed 11,45 mm/h; 40 mm/day 20 mm/Tag, 9 mm/day quartz movement	5060... 5061... 5062...
Hum. meas. Elem. H (- 35 ... + 70 °C) K (0 ... + 80 °C)	Measurement range 10 ... 100% r.H. 0 ... 100% r.H.	...1... ...2...
lockable	No Yes	...0... ...1...
Temp. measurement range	-35 ... +45 °C (only H) -20 ... +60 °C (only H) -10 ... +50 °C (only H) -10 ... +40 °C (only H) 0 ... +40 °C 0 ... +50 °C 0 ... +60 °C 0 ... +80 °C	...01 ...02 ...03 ...04 ...05 ...06 ...07 ...08
Scale range Accuracy	0 ... 100% r.H. ± 2 % r.H. (H) ± 3 % r.H.(K) ± 1 % v. Mb.	
Writing width Division Dimensions Weight	2 x 82 mm 5% r.H. / 1or 0,5 °C 280 x 138 x 285 mm 2,1 kg	