Humidity Calibrator HMK15

EASY AND RELIABLE CALIBRATION

No measuring instrument stays accurate by itself. It is essential that the functioning is checked against a reference from time to time. With Vaisalas humidity calibrator HMK15 calibration and spot checking of humidity probes and transmitters is easy and reliable.

The operating principle of the HMK15 is based on the fact that a saturated salt solution generates a certain relative humidity in the air above it. The reading of the humidity probe or transmitter can then be adjusted accordingly. Many leading laboratories use this generally accepted and reliable method. Usually two or three different salt solutions are used which are chosen according to the application.

The HMK15 can be ordered with certified and ready dosed salts. A sample calibration is made from each batch in Vaisala's Measurement Standards Laboratory (MSL). Please, turn over for detailed information on these salts.

CALIBRATED THERMOMETER

HMK15 can be ordered with a thermometer which is used for measuring the temperature during the calibration. The thermometer can contain either mercury (accuracy ± 0.3 °C) or red capillary liquid (accuracy ±1.0 °C). The mercury thermometer has been calibrated in Vaisala's MSL and can also be used for checking temperature measurement accuracy of the transmitter. Thermometers with red capillary liquid have been calibrated by the manufacturer.

Vaisala's Measurement Standards Laboratory is a FINAS accredited calibration laboratory. FINAS is a member of the EA (the European co-operation for Accreditation).

FINAS AKKREDITOINTI SUOMI FINLAND

K008 (EN45001)
(ISO/IEC Guide 25)

HUMIDITY CALIBRATOR HMK15

The standard HMK15 consists of the following parts:

- two salt chambers with chamber covers and transit covers
- base plate
- thermometer:
  Vaisala calibrated mercury thermometer (19728HM) or thermometer with red capillary liquid (calibration by manufacturer, code 25130HM)
- measurement cup and mixing spoon

OPTIONS:

• certified and ready dosed salts		order code:	total uncertainties at +20 °C:
LiCl salt	11 %RH	19729HM	±1.3 %RH
$MgCl_2$ salt	33 %RH	19730HM	±1.2 %RH
NaCl salt	75 %RH	19731HM	±1.5 %RH
K_2SO_4 salt	97 %RH	19732HM	±2.0 %RH
• ion exchanged water		19767HM	
• extra salt chambers		19766HM	
• carrying bag		HM27032	

HMK15 ORDER FORM

	HMK15									
Salt chamber	two salt chambers	A								
	three salt chambers	B								
LiCl salt	no LiCl		0							
	LiCl (11 %RH) for one chamber		1							
	LiCl (11 %RH) for two chambers		2							
$MgCl_2$ salt	no $MgCl_2$			0						
	$MgCl_2$ (33%RH) for one chamber			1						
	$MgCl_2$ (33%RH) for two chambers			2						
NaCl salt	no NaCl				0					
	NaCl (75 %RH) for one chamber				1					
	NaCl (75%RH) for two chambers				2					
K_2SO_4 salt	no K_2SO_4					0				
	K_2SO_4 (97 %RH) for one chamber					1				
	K_2SO_4 (97 %RH) for two chambers					2				
Ion exchanged water	no water						A			
	water for three chambers						B			
Carrying bag	no bag							0		
	carrying bag							1		
Thermometer	with mercury								1	
	with red capillary liquid								2	
Manual (language)	no manual									A
	English									B
	French									C
	German									D
	Finnish									E

A typical order code would be:

HMK15 A 1 0 1 0 B 0 1 B

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