

HUMIDITY CHECKING

Saturated salt solutions

KSH-11 KSH-44 KSH-85



Saturated salt solutions are dedicated to test and control transmitters (fixed installation) and portable instruments.

They can be used in metrology and maintenance departments, laboratory works, and by all installers wishing to check proper working of their instruments.



- Easy and accurate control for hygrometry probes
- Suitable for diameter 13mm hygrometry probes
- Saturated salted solutions
- Can be used either on-site or in laboratories conditions.

TECHNICAL FEATURES

Stabilization duration	3 hours
Packaging	PMMA cylinder Black POM ends
Sealing	seal ring
Storage conditions	around 20°C away from direct light

Operating conditions	from 15 to 30°C
Lifespan	See date written on sticker respecting storage conditions.

SPECIFICATIONS

Saturated salt solution	Chemical symbol	Risk*	% RH **				
			15°C	20°C	25°C	30°C	
KSH – 11 (Part number 15644)							
Lithium chloride	(LiCl)	Xn	11.30	11.31	11.30	11.28	
KSH – 44 (Part number 15645)							
Potassium carbonate	(K ₂ CO ₃)	Xn	44.15	43.16	43.16	43.17	
KSH – 85 (Part number 15646)							
Potassium chloride	(KCl)	Xi	85.92	85.11	84.34	83.62	

*Read carefully safety datasheet

** From R121-F96 of OIML

OPERATION



- Before using saturated salt solutions please read carefully safety datasheet.
- Saturated salted solution lifespan is 1 year if storage conditions are respected.

1. The chamber containing saturated salt solutions shall imperatively contain:
 - Salt in solid form
 - Liquid solution or wet salt
2. Put salted solution in an environment with stabilized temperature during 24 hours, respecting the operating conditions. Very important ! The instrument shall be at same temperature as salted solutions. If not, even very low temperature difference would affect the relative humidity accordingly.
3. Use gloves to open solutions.
4. Check if chamber inside is dry. If not, dry it with absorbing paper.
5. Insert probe inside cylinder. Avoid to touch sensing element.
6. Wait for 3 hours. If you are using sintered tip, 1 hour shall be added.
7. Write down humidity percentage measured by humidity probe.
8. Compare your result with instrument accuracy (see its technical datasheet)
9. If measurement is out of specifications, the instrument shall be duly adjusted.

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