



KS 2

Liquid alarm sensor KS 2 / KS 2.Ex for non-conductive and conductive media

- Sure detection even of minimal liquid quantities
- Integrable in M&C-universal filters and flow chamber
- Explosion proof version according to ATEX for zone 0

Application

Liquid alarm sensors are used in gas sample conditioning systems for monitoring gas cooling and condensate drain-off devices in order to provide protection for downstream analysis instruments. This monitoring device **KS 2/KS 2.Ex** reliably signals the penetration of non conductive (*e.g. alcohol*) and conductive (*e.g. water*) liquid in the event of cooling or condensate drain-off equipment being defective, thus avoiding expensive down time as well as high repair costs for analysis instruments.

In the event of an alarm, power for the sample gas pump must be switched off or a solenoid valve must be switched idle in the sample conditioning system.

Description

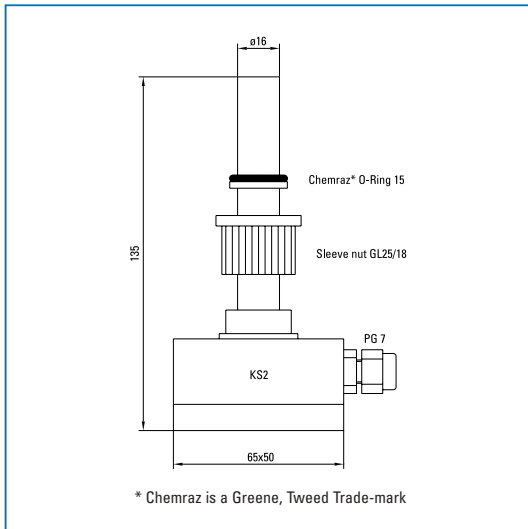
The **M&C** liquid sensor **KS 2/KS 2.Ex** works on the principle of capacitive measurement and is suitable for non-conductive and conductive media. A pre-amplifier is integrated in the sensor housing and is connected with the necessary external electronic controller via 2- resp. 3-wire. For **KS 2** the required electronic controller is available in various versions, **FA1.1**; **FA1.4** and is described in the separate data sheet 5-6.10.2.

The **M&C** liquid sensor **KS 2.Ex** for use in hazardous areas and media should only be applied in connection with electronic controller **WE77.Ex1** or **KFA6-SR2-Ex1W**.

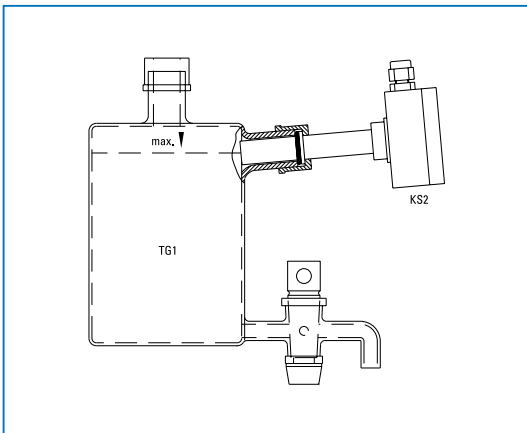
The **M&C KS 2/KS 2.Ex** liquid sensor is constructed in such a way that any droplets of liquid in the sample gas are attracted directly to the active sensor surface. Even the smallest liquid droplets will trigger a sure and rapid alarm. The sensors are mounted with the 16mm \varnothing stainless steel body in the **GL-25** connector of the universal filter **F...-D** or the condensate pot **TG1** or in the flow chamber **LS/KS**.

Dimensions

KS 2 / KS 2.Ex liquid sensor

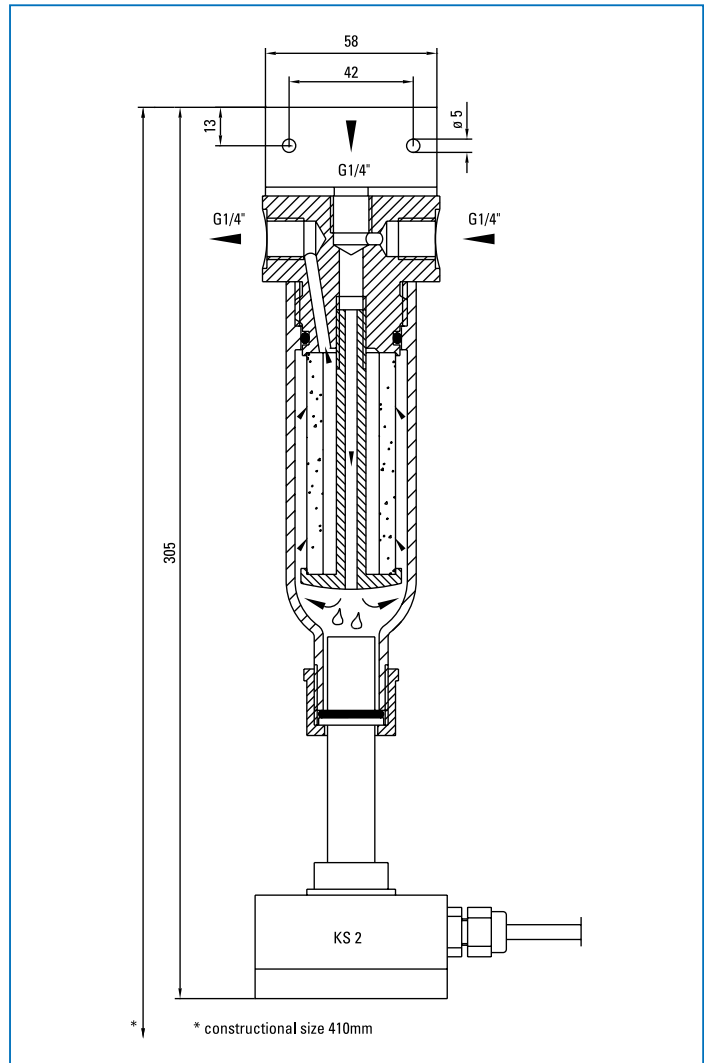


KS 2..liquid sensor for level monitoring in condensate pot TG1



Dimensions in mm

Liquid alarm sensor KS 2 / KS 2.Ex in a universal filter F.-.-D



In the event of condensate penetration, the filter housing acts as a buffer vessel preventing immediate liquid penetration.

Technical Data

Sensor	KS 2	KS 2.EX
Part No.	03E4100	03E4200
Pressure	max. 2 bar abs.	
Max. operating temperature	0 to +60 °C	0 to +50 °C
Stagnant space	1,5 ml = min. liquid alarm level	
Material of sample contacting parts	PTFE, CHEMRAZ, SS 316Ti	
Sample connection	16 mm	
Method of mounting / mounting position	clamping attachment / any position	
Connection cable, length 1,5 m standard	3x 0,25 mm ²	2x 0,25 mm ²
System of protection	IP 54 EN 60529	II 1 G EEx ia IIC T6, KEMA 03ATEX1006
Weight	190 g	