

Condensate Guard

CG1 / CG2

Application

The condensate guards CG1 and CG2 are used for continuous extractive gas analytics. They are usually integrated downstream the sample gas cooler and serve for detection of humidity and condensate break through within a gas analysis system.

Technology

CG1 and CG2 are complete units ready for operation (plug and play) in a compact and robust IP66 housing. They are equipped with liquid sensor(s) and electronic(s) as well as with power supply and alarm contact cable. The sensors are mounted in a flow chamber made of corrosion resistant PVDF and have two closely positioned long-lasting corrosion resistant platinum contacts, electrically conductive connected already due to minimal condensate quantities. Via the connected electronic a signal then is transmitted to the outside. The PVDF sample gas connections for hose DN4/6 are located at the outside of the housing.

Functions

The one- resp. two-way condensate guards CG1 and CG2 reliably detect a condensate break through downstream the sample gas cooler and therefore give an indication of an overload or defect of cooler or condensate separator. Additionally, the downstream analyzer is protected against breaking through condensate by e.g. switching off the sample gas pump in case of alarm via the integrated electronic. This way costly downtime and high repair costs of the analyzer are avoided.

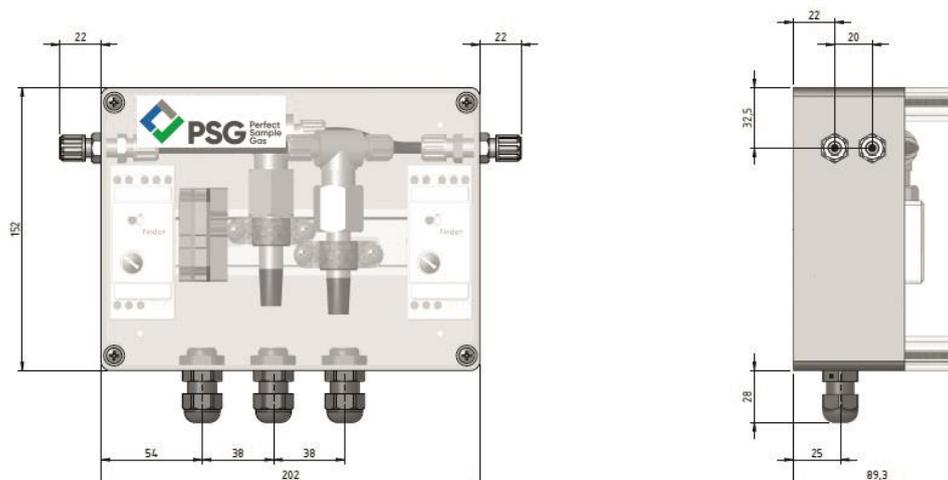


- ✓ Reliable protection of the analyser against condensate break through
- ✓ Safe detection of condensate
- ✓ Completely ready for mounting (Plug and Play)
- ✓ Simple mounting and integration
- ✓ High chemical resistance
- ✓ Monitoring of one or two gas paths
- ✓ Voltage 24V DC, 115V AC or 230V AC
- ✓ Line break monitoring of the sensor

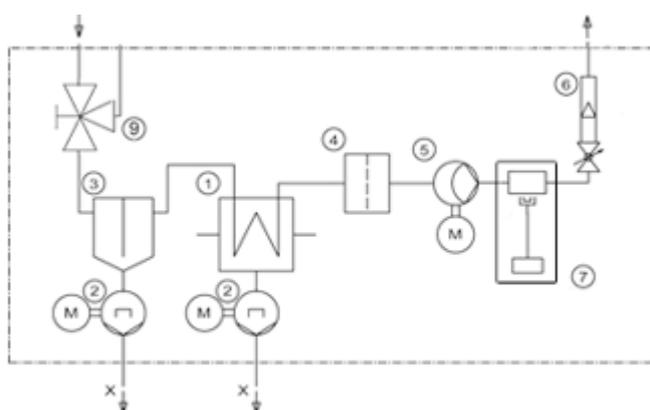
Technical Data

CG1 / CG2							
Part no.		92100022	92100025	92100023	92100026	92100021	92100024
Gas paths		1	2	1	2	1	2
Ambient temperature	°C	-20...+60					
Max. media temperature	°C	100					
Media wetted materials		Glas, PVDF, Platin, FPM					
Max. operating pressure	bar	2,5					
Max. flow rate V_n	l/h	500					
Design data							
Dimensions (W x H x D)	mm	202 x 152 x 90					
Weight	kg	0,9	1,1	0,9	1,1	0,9	1,1
Mounting		wall mounting					
Electrical data							
Voltage	V	230/240V AC 50/60Hz		115V AC 50/60Hz		24V DC	
Protection rate		IP66					
No. of contacts (changeover)		1	2	1	2	1	2
Max. continuous current / max. starting	A	16 / 30					
Nominal voltage / max. switching voltage	V AC	250 / 400					
Responsivity	k Ω	5 - 150					

Dimensions



Application Example



- ① Heat exchanger
- ② Condensate pump
- ③ Condensate pre-separator
- ④ PTFE depth filter
- ⑤ Sample gas pump
- ⑥ Flow meter
- ⑦ **Condensate Guard CG1**
- ⑨ Test gas valve