

NH₃/CO₂ leakage switch

CO₂ leakage detection in NH₃ cascade heat exchanger.

LED indication for power and alarm status.

Simple to install with a sleeve. A cost-optimized solution.

Single Shared design that make it easy to install and diagnostics. The electronic part can be easily removed from the mechanical part by two small screws.



Functional description

HBAC is used for detecting leakage in cascade systems. The sensor triggers an alarm if there is an NH₃ leak in the CO₂ part. A leak results in several hours of cleaning the pipes and heat exchanger. If a CO₂ leak occurs in the NH₃ part, salt crystals are formed. These salt crystals are very corrosive and lead to clogging of the parts. If the leak is not stopped in time, it can lead to extensive damage to the heat exchanger, pipes, and pump. The sensor detects even very small leaks.

