Which pressure transmitter to choose for your hydrogen measurement?



Hydrogen can cause serious problems for pressure transmtters



Strange static pressure behaviour





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Very high and unpredictable zero drift





Did you know that hydrogen penetrates transmitter diaphragms?







Hydrogen is the smallest atomic element



It penetrates the thin process diaphragms of pressure transmitters



After passing through the membranes, the H+ ions combine into H₂ gas molecules



The filling oil is compromised



How to avoid the risk of bad pressure measurements?



Select diaphragms materials that are insensitive to permeation





Avoid metals with a high nickel content





Gold-plated stainless steel diaphragms offer good protection



But this is not enough



Unique Hydro Seal design developed by Fuji Electric







Hydro Seal design





Reduce the atomic diffusion



Recommended where hydrogen permeation is most serious



Don't stay alone with your hydrogen challenges

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