

## Solutions for Monitoring of Hydrogen Technology

### Hydrogen concentration

H2SCAN instruments allow direct monitoring of hydrogen without interference. They use a palladium-nickel sensor, protected by a number of patents.

These compact analyzers allow the selective measurement of H<sub>2</sub> concentrations in the range of 0.1-100%. In addition to monitoring technology, they also enable the safe detection of hydrogen leaks. They are available in various portable and stationary versions and are much more user-friendly than indirect thermal-conductivity or chromatographic devices.



### Impurities in hydrogen

V&F's HydrogenSense analyzer is designed to monitor trace pollutants in hydrogen in accordance with ISO 14687: 2019 and SAE J2719\_2020, which define the maximum permissible concentration of pollutants in hydrogen.

These pollutants include in particular H<sub>2</sub>O, O<sub>2</sub>, He, N<sub>2</sub>, Ar, CO, CO<sub>2</sub>, TS THC, HCHO, HCOOH, NH<sub>3</sub>, HCl and Cl<sub>2</sub>. The instruments work on the principle of mass spectrometry and allow a single analyzer to monitor all components with a very fast response.



### Clamp-on flowmeters Flexim

Clamp-on flowmeters Flexim allow accurate measurement of hydrogen flow from the outside of the pipeline. This is a particularly advantageous solution to the problem of tightness of the joints in hydrogen technologies.



For detailed information on any solutions of your interest we are gladly available on our below contact:

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