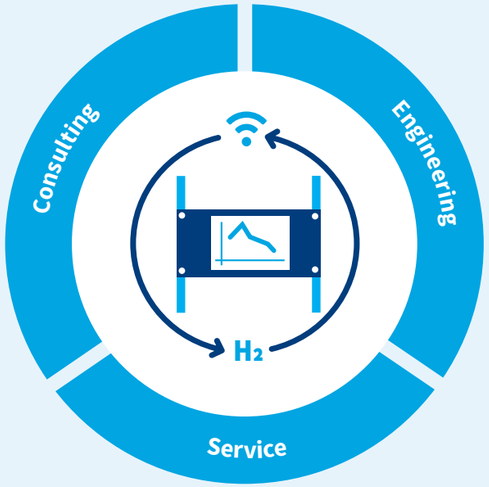
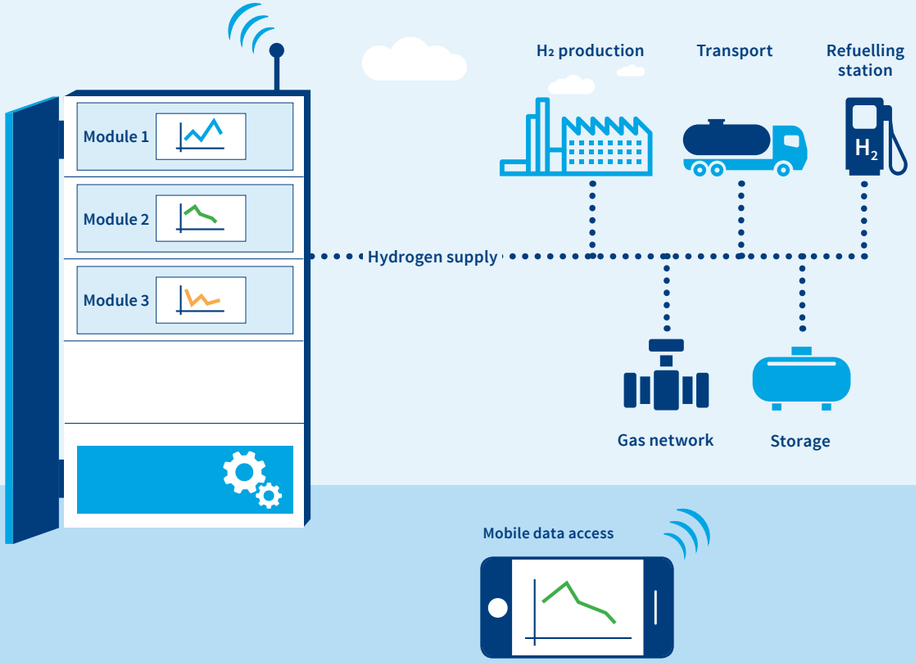
EMCEL Engineering Company for Fuel Cell, Hydrogen Technology and Electric Mobility

Our services for H_2 quality measurement and analytics

Measurement of the hydrogen quality according to DIN EN 17124, ISO 14687, SAE J2719 and other standards

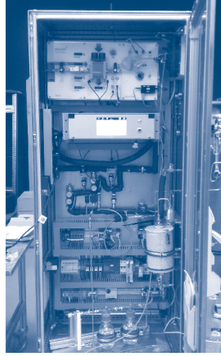


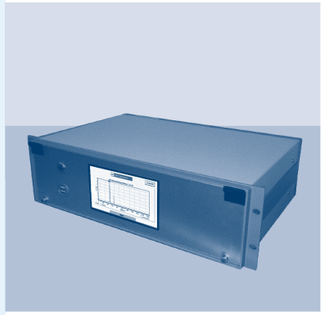
H_2 quality measurement and analytics

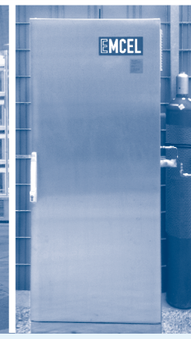


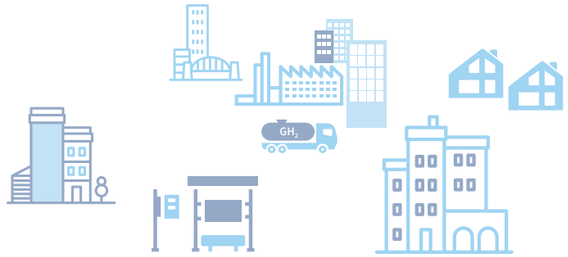
Standard-related detection limits

Substances	DIN EN 17124 (ppm)
NH3	0,1
Total sulphur	0,004
Formic acid	0,2
Formaldehyde	0,2
Halogens	0,05
H2O	5,0
Complex HC, Oils and greases	2
HC	2
O2	5,0
CO	0,2
CO2	2,0
CH4	100
He	300,0
N2	300,0
Argon	300,0
Other substances and details on request	









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EMCEL provides you with advice at every step of the H_2 quality measurement and analytics – Our services in detail

BASICS	PLANNING	ACQUISTION	MEASUREMENT PREPARATIONS	MEASUREMENT OPERATION
Consulting				
Introduction to the methods of quality measurement		Market analysis of measuring devices and methods		
Initial consultation	Development of systematic measurement campaigns		Selection of suitable measuring sites for measuring quality	
What does H_2 quality mean?	Risk assessment on the effects of impurities			
Standards and committee work	Definition of impurities to be measured			
	Engineering			
	Development of measuring systems suitable for use outdoors (also for mobile use)			
	Support in the development of measuring devices			
		Support in the coupling of hydrogen		
			Assistance with plant optimisation	
			Service	
			Installation of measuring systems on site	
			Implementation of measurement campaigns according to DIN EN 17124 and further	
				H_2 quality measurements
				Online data provision

Customers:

- H_2 manufacturers
- H_2 suppliers
- Plant operators
- Component manufacturers
- Plant manufacturers

CONSULTING
H_2 quality
Measuring methods

ENGINEERING
Measuring systems
H2 plant optimisation

SERVICE
Measuring operation
Analytics