

PERFECT SOLUTIONS FOR GAS ALARM SYSTEMS



Safe H₂ Gas Monitoring



Fixed gas detection systems

for your safety in the production
and use of hydrogen

Your partner for

- ✓ H₂ Research
- ✓ H₂ Production
- ✓ H₂ Logistics
- ✓ H₂ Mobility

EN 60079-
29-1



H₂ Gas Monitoring

For research, production, logistics and mobility

The use of hydrogen as an energy carrier of the future is manifold. In addition to its use in welding or as a fuel for rockets, the focus is currently mainly on the automotive sector. H₂ is a very reactive gas, which makes constant monitoring by a gas detection system

throughout the entire life cycle essential. For successful gas monitoring, the SIL2-certified PolyXeta®2 sensor with X-Change technology is used. The permanent gas monitoring serves the primary explosion protection and thus also the plant safety.



GAS HAZARDS

Hydrogen is an excellent energy carrier, but it is also one of the most difficult substances to transport anywhere. The extreme danger of hydrogen leaks lies here in the oxyhydrogen explosion. During research work, on test rigs and during the production of the gas, leakages can occur at any time and cause catastrophic damage in the event of ignition. Also warning systems must be installed in hydrogen production from ammonia and at petrol stations to protect people and equipment from this highly flammable gas.



BENEFITS

- SIL2 certified PolyXeta®2 sensor for ATEX zones 1 and 2
- Metrological testing of sensors and devices according to EN 60079-29-1 for combustible gases / EN 50104 for oxygen
- Cost-reduced calibration through sensor head exchange on site (X-Change technology)
- Solution for individual requirements, simple mounting by means of mounting bracket
- Easy connection to existing systems (analog, Modbus)
- 2 potential-free relays, e.g. to control warning device



PolyXeta®2 with SX1



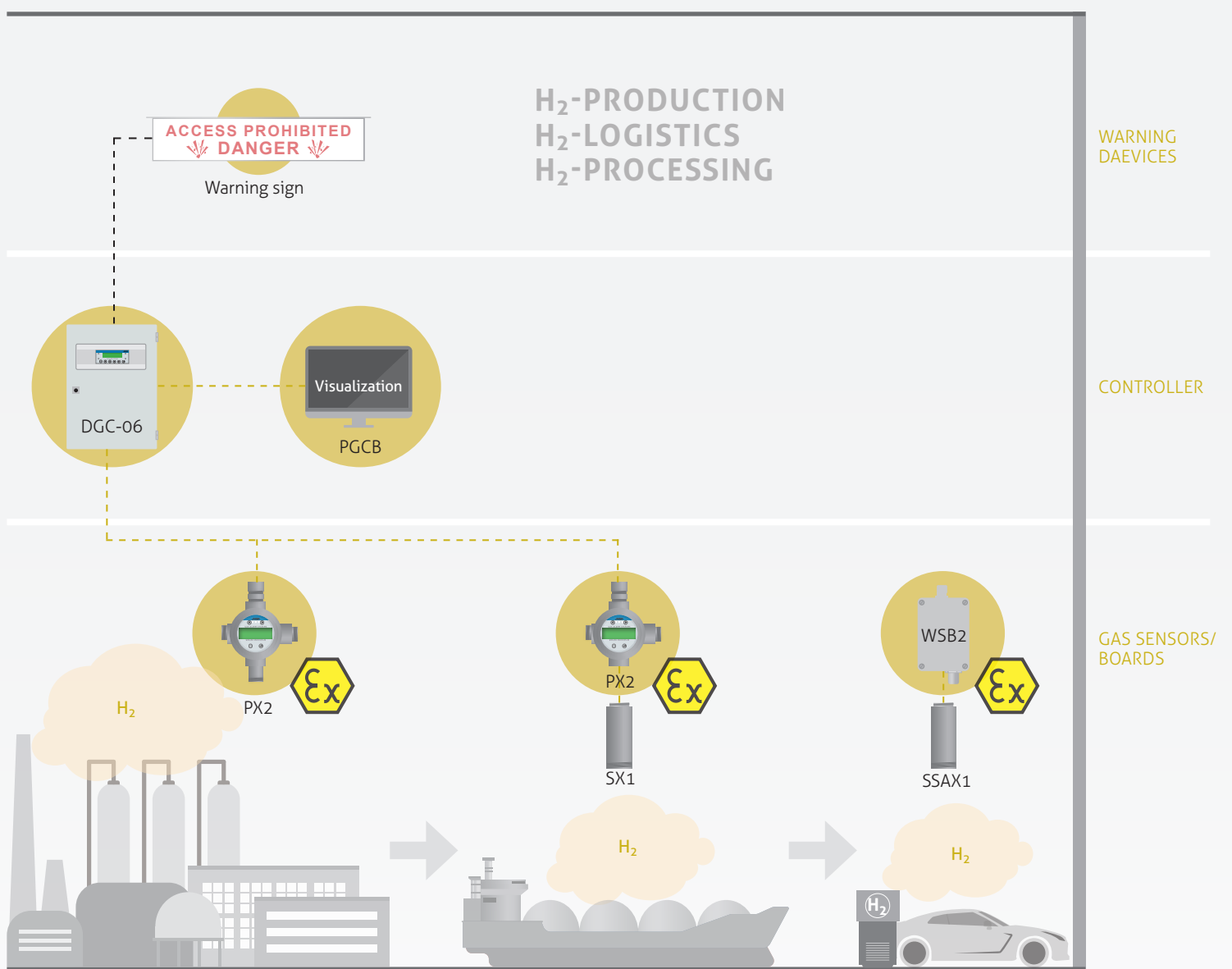
PolyXeta®2 with SSAX1





HOW-TO VIDEO

Watch the commissioning of the PolyXeta®2 in the video here.



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■ Made
■ in Germany