



ONLINE GAS MONITORING SOLUTIONS

For the GH2 industry

About Us



AquaGas Monitoring Systems Integrated Systems and Customised Services

- Founded in 2013, based on the Gold Coast
- Systems integrator of AMS (Automated Monitoring Systems)
- Turnkey solutions for environmental compliance and process control
- Focused on customer satisfaction
- Air, Water, Emissions and Process gas
- Short to long term rental (CEMS & process analysers)
- High performance and cost-effective technologies
- Strong support of suppliers' network
- Customised service agreement with dedicated technicians
- Industry leading manufacturers: DURAG, HORIBA, Madur...

Our Suppliers Network



DURAG GROUP

madur



HORIBA

s::can
A Badger Meter® Brand



WÖHLER

SETNAG

ellona

AND
MORE...

Our Reference Users



More on AquaGas solutions
for the GH2 industry

[SmartCEMS GH2
Product page](#)

[Green Hydrogen](#)

[SmartCEMS in
GH2 plants](#)

[ProCeas
in GH2 plants](#)



- Fortescue Future Industries WA, Australia
- CSIRO Manufacturing VIC, Australia
- NYRSTAR SA, Australia
- YARA WA, Australia
- VISY Smithfield NSW, Australia
- Gippsland Water VIC, Australia
- SUEZ Perth WA, Australia
- Queensland Urban Utilities and UTILITA QLD Australia
- Gold Coast City Council QLD, Australia
- Queensland Urban Utilities QLD, Australia
- Adchem Australia Pty Ltd SA, Australia
- Melbourne Water VIC, Australia
- Water Corporation WA, Australia

AND MORE...

Our Product Range



Field Of Application for the GH2 industry

PROCESS CONTROL | H₂ and O₂

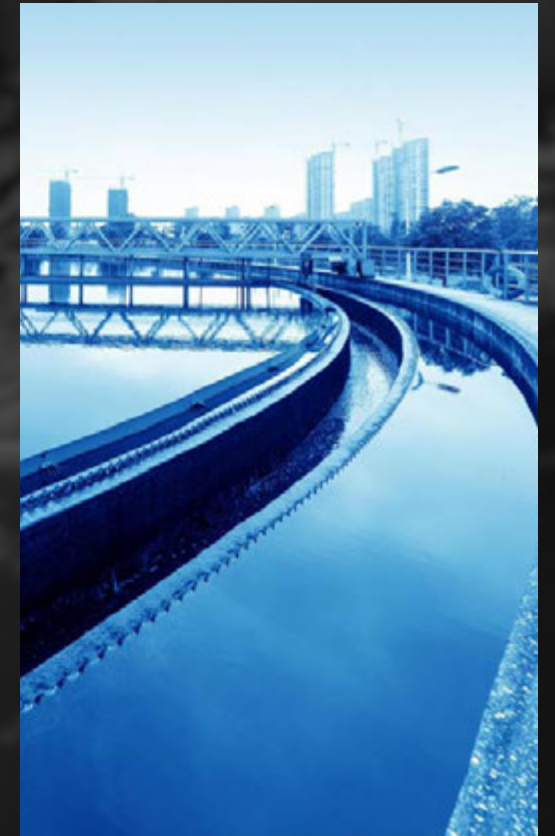
- Portable and Fix monitoring system for H₂ and O₂ upstream or downstream of the electrolyser, mixing stations or injection points, Along the natural gas pipeline, At customer sites just upstream of burners ...
- Online Monitoring of Green Hydrogen primary constituents in process gas streams
- CO, CO₂, NO, NO₂, NO_x engine emissions reporting.

HYDROGEN PURITY | Regulated impurities incl. H₂S, CO, CO₂, CH₄, H₂O, O₂, NH₃, H₂O, HCHO, etc.

- Measurements of impurities in hydrogen gas streams upstream or downstream of the electrolyser, mixing stations or injection points, Along the natural gas pipeline, At customer sites just upstream of burners ...
- Complies with ISO14687-2

OCCUPATIONAL, HEALTH AND SAFETY | H₂, CO, CO₂, C_xH_y, H₂S, O₂, Sterilant and Refrigerant Gases. Also, Noise, Light, Rh...

- Indoor Air Quality IAQ sensors network solution with indexes: Viral, Comfort, Pollution...
- Powerful stationary, portable and clip-on gas detection systems for workers safety



SmartCEMS



Online Multigas analysers
Process Control & Environmental Compliance

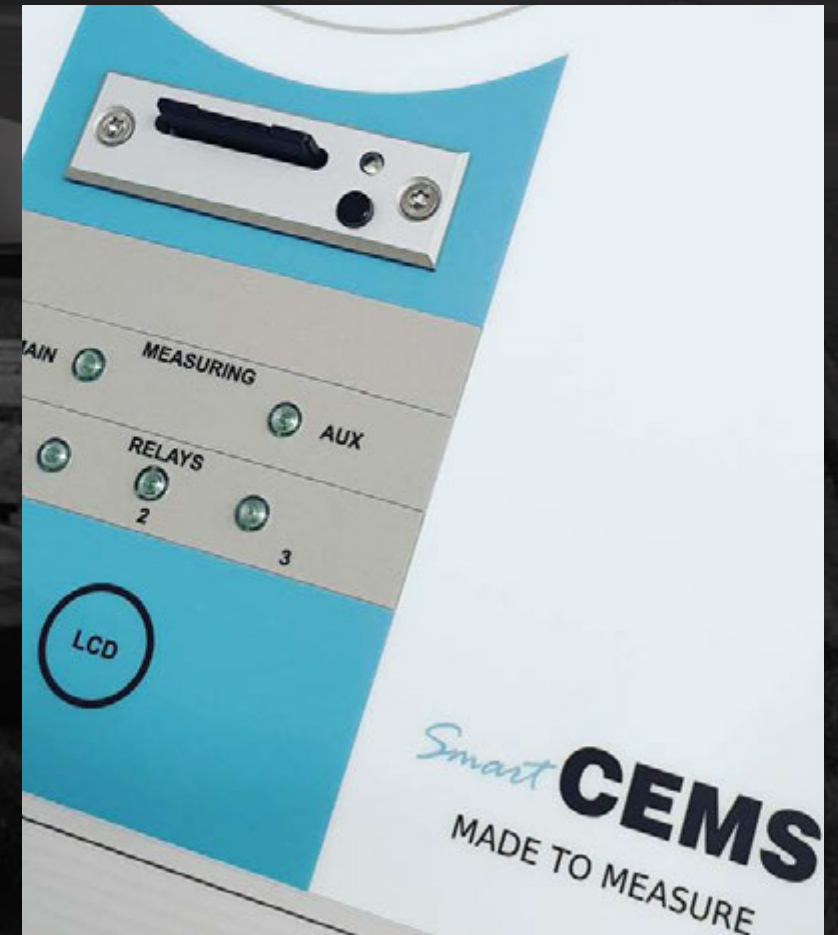
[LEARN MORE](#)

SmartCEMS



Main Features

- Online Monitoring of GH2 Primary constituents in gas streams
- Powerful sensor combinations for complex gas matrices
- Fully supported by AquaGas in Australia, New Zealand and the Pacific Islands (sales and services)
- H2 and O2, gas temperature, velocity and flow
- Modular and flexible design offering a pertinent selection of measuring and sampling methods
- Complies with international standards (EN14181, WA CEMS code, EPAs, NGER)
- Semi-automatic or automatic redundancy for greater data availability
- Empower NGER National Greenhouse and Energy Reporting
- Mcerts DAHS computer and CDAS software suite
- No requirements for career, purge or zero gas.



SmartCEMS



Analytical Performances
Accuracy and Response Time

Gas	Accuracy	Time T (90)
H2 %	± 0.1 % abs.	45s
H2 ppm	1 ppm	45s
O2	± 0.1 % abs.	45s
CH4	± 1 % abs.	45s
H2S	± 0.1 to 1 ppmv abs.	45s
Biogas Temp	0.1°C	5s
Diff Pressure	1Pa	5s
Gas velocity	0.1m/s	5s

SmartCEMS

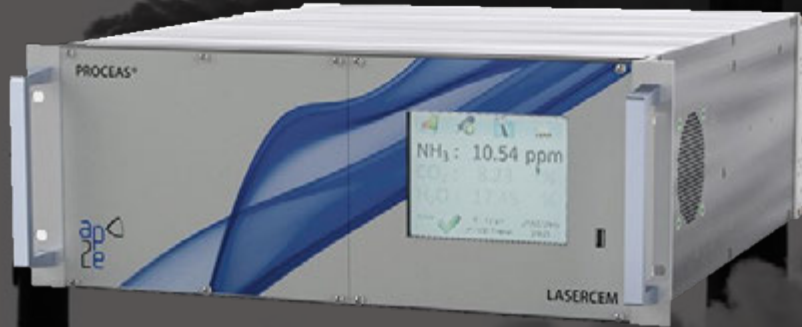


Analytical Performances Approved Methods

- O₂, CO: ISO 12039, CTM-030
- CO₂: ISO 12039, OTM-13
- CH₄: ISO 12039, OTM-13
- C_xH_y: ISO 12039, OTM-13
- NO, NO₂: EPA Method CTM022 (Emissions reporting)
- VOC : USEPA Method 21 Photo Ionization Detection (PID)
- Flow, velocity and temperature: USEPA method 2C



ProCeas



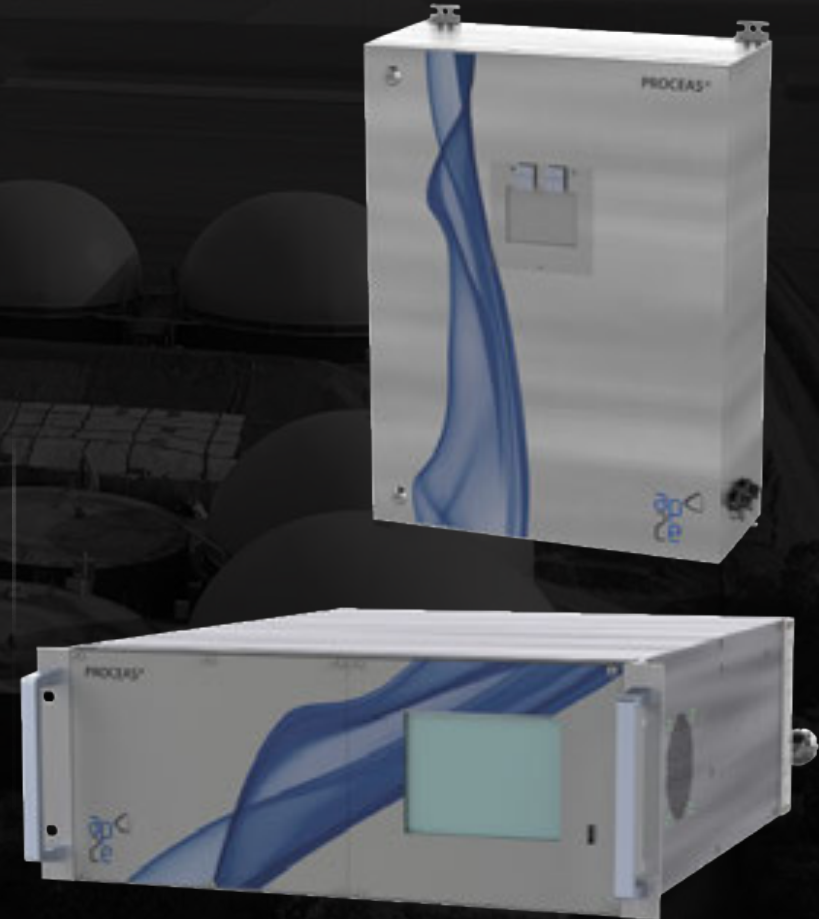
Multigas Analyser
Process control and purity assessment at GH2 Plants

ProCeas Hydrogen Purity



Exclusive Features

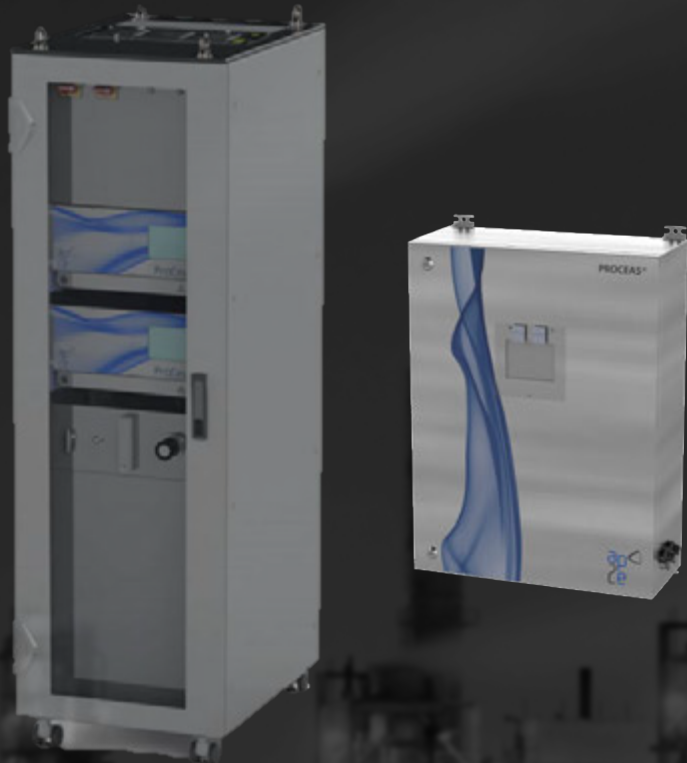
- Highly sensitive ProCeas® H2 Purity for ISO compliance monitoring (H2S, CO, CO2, CH4, O2, NH3, H2O, HCHO, etc.)
- Low detection level (sub-ppb)
- Patented Low Pressure sampling System (no gas conditioning requirements)
- Patented spectroscopy based measuring method OFCEAS
- Built-in real-time acquisition with Powerful PC interface
- Complete pre-calibrated laser infra-red spectrometer
- No Zero drift and no Span drift – No daily calibration required
- No nitrogen, zero air, purge or other carrier gas
- Analogue outputs (4-20mA / 0-10V)
- Process control ProCeas® H2 trace analyser (H2 and O2)
- Limited volume of sample needed for an analysis



ProCeas H2 Purity



Analytical Performances
Accuracy and Response Time



Gas	ISO 14687-2 LIMITS (PPM)	LOD PROCEAS® (PPM)
H2O	2	0.01
CH4	5	0.001
O2	5	1
CO2	2	0.2
CO	0.2	0.001
H2S	0.004	0.001
HCHO	0.01	0.001
HCO2H	0.2	0.005
NH3	0.1	0.001
HCl	0.05	0.001

GA40TPlus



Portable Multigas Analyser
Process Control & Environmental Compliance

GA40TPlus

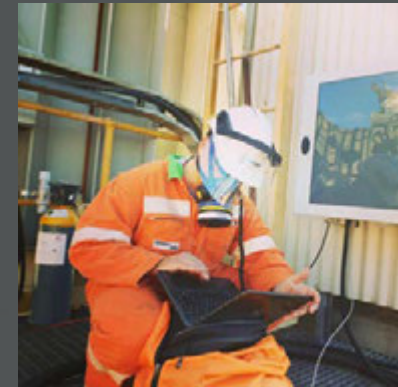


Exclusive Features

- NDIR, PID, TCD AND ELECTROCHEMICAL: up to 9 gas measuring cells incl. O₂, CO, CO₂, CH₄, H₂, Cl₂, HCl, H₂S, NO, NO₂, N₂O, VOCs and SO₂
- Standard or Heated (for hot and wet gases) gas sampling train
- Built-in real-time acquisition with Powerful PC interface
- Differential pressure sensors for measurements of chimney draft and flow velocity
- High performance portable device with 15 HOURS OF OPERATION
- Process gas temperature measurement
- Analogue outputs (4-20mA / 0-10V)
- Built-in gas dryer and dew point stabiliser
- Inline filter and condensate trap



Technical Support



- Supply of consumables and critical spares
- Remote diagnosis
- Installation, commissioning, maintenance, training
- Dedicated Technician factory trained by manufacturer
- Maintenance visits scheduled at a time mutually convenient to both parties
- Free email and Phone support 24h/7d
- Site attendance within 72 hrs

Services and Product Enquiries



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