

GH2 HUB

GH2 HUB | Stationary Certified Custody Transfer Flow Measuring System for Gaseous Hydrogen

Compact Measuring Solution for your Swap Trailers for Hydrogen Discharge

The GH2 HUB measuring system from TrigasDM® is the ideal solution for **your Swap Trailers for Hydrogen Discharge**. It was specifically developed for unloading at varying flow rates and enables precise, legally compliant recording of the dispensed hydrogen quantities.

Thanks to its compact design and sophisticated system architecture, GH2 HUB can be easily integrated into existing infrastructures. Operators benefit from high measurement reliability, user-friendly operation, and a solution that can be flexibly adapted to different plant concepts.



Legal basis for billing for stationary H₂ refuelling

- ✓ **High dynamic range:** One or two sensors cover the smallest to the highest flow rates
- ✓ **Tailor-made:** We provide you with test equipment if sizing and measurement ranges still vary
- ✓ **Certified custody transfer system:** Legally compliant billing of H₂ quantities supplied

Flexible operation of the GH2 HUB from TrigasDM

- ✓ Automatic mode: Pressure sensors control the discharge process (e.g., start at <30 bar)
- ✓ Manual mode: Full control for individually required quantities
- ✓ The TWS can be easily connected via a standard autoclave connection and can be operated either via intrinsically safe 24 VDC or independently via a solar module. It is also available as an option in a robust weatherproof cabinet for outdoor use.

Efficient service concept: calibration directly on site

🚚 **Verification at your facility:** Our mobile team will provide the calibration service at your site (every 2 years).

🛠️ **Minimal downtime:** No shipping, minimal disruption to operations.

⚙️ **Robust design:** Designed for continuous operation in harsh industrial environments.

Technical data for GH2 HUB – certified custody transfer hydrogen metering system

Standard configuration. We will be happy to advise you on available options.

GH2 HUB	
Medium	Gaseous hydrogen
Operating pressure range	20 to 1048 bar
Qmin (minimum flow rate)	0,17 kg/min
Qmax (maximum flow rate)	24 kg/min
Cut-off threshold	0,04 kg/min
Measurement accuracy	±2%
Operating temperature for pressurized parts	-50 to +120°C
Temperature range	-40 to +55 °C
Ambient temperature range	-25 to +55 °C
Mechanical / Electrical environment	M2/E2
Power supply	24 VDC
Overall dimensions (system with one sensor)	Housing ca. 600 x 500 x 280 mm Weight approx. 30 kg
Overall dimensions (system with two sensors)	Housing approx. 1100 x 600 x 430 mm Weight approx. 45 kg



TrigasDM® GmbH is a manufacturer of high-precision flow measurement technology and a specialist in hydrogen measurement solutions. Our sister company TrigasFl® is an **accredited calibration laboratory**, providing high-quality calibrations for flow measurements of liquids and gases under demanding conditions.

Made in Germany ● ● ●

Our products are developed and manufactured exclusively in Germany, Neufahrn, near Munich Airport.

Trigas  DM