

# GH2 Source

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

### Compact H<sub>2</sub> Trailer Filling directly at the Source

The GH2 Source metering system from TrigasDM® is a reliable, field-proven solution for a **certified custody transfer flow measurement** for filling hydrogen trailers. The system was developed especially for use at hydrogen production sites, downstream of compressors. Thanks to its robust design, precise measurement technology and simple operation, GH2 Source is suitable for **stationary installations in demanding industrial environments**.



A key focus during development was **seamless integration**. Its compact design allows straightforward integration into existing infrastructure without requiring major modifications to the plant. This makes GH2 Source easy to implement efficiently in both new projects and existing systems.

### Precise. Robust. Plug & Play

- ✓ **Robust design:** Developed for continuous operation in harsh industrial environments
- ✓ **Plug & Play:** Compact design for easy integration into existing or new plants.
- ✓ **Flexible control:** Start via the process control system (automated) or manually on site.




## Verifiable billing of hydrogen deliveries with GH2 Source

GH2 Source is a **certified custody transfer flow measurement compliant with regulations of MessEG**, while offering a high degree of flexibility, robustness and easy integration. It supports hydrogen producers in providing hydrogen **efficiently, safely and with full traceability**.

Flexible control options and a well-designed verification service support long-term **operational safety, availability and cost efficiency**.



## Verification Service on-site – minimal downtime

-  **Compliant & traceable:** Certified custody transfer flow measurement in accordance with the Measurement and Verification Act (MessEG) for direct commercial sale
-  **Verification at your facility:** Our mobile team will provide the calibration service at your site (every 2 years). Organizations and communication with authorities will be done by us.
-  **Minimal downtime:** No shipping, minimal disruption to operations.

## Technical data for GH2 Source – custody transfer hydrogen metering system

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

GH2 Source	
Medium	gaseous hydrogen
Operating pressure range	20 to 1048 bar
Q <sub>min</sub> (Minimum flow rate)	0.17 kg/min
Q <sub>t</sub> (Transitional flow rate)	0.83 kg/min
Q <sub>max</sub> (Maximum flow rate)	4.17 kg/min
Cut-off threshold	0.033 kg/min
Measurement accuracy	±1.5% Q <sub>t</sub> bis Q <sub>max</sub> ±2.5% Q <sub>min</sub> bis Q <sub>t</sub>
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

TrigasDM® GmbH is a manufacturer of high-precision flow measurement technology and a specialist in hydrogen measurement solutions. Our sister company TrigasFI® operates as 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 near Munich Airport.

