ABOUT AST

AST is your global innovation partner for customized sensors. We develop high-quality sensor solutions in the product areas for high-current, liquids and gases.

Since 1926	Made in Germany	~ 200 Employees

- ✓ Short lead times and product availability
- ✓ Tailored solutions for your application
- ✓ Future-proof through continuous product development
- ✓ Designed and manufactured in Germany

DC GRID SOLUTIONS

The DC Grid industry is experiencing significant growth, driven by increasing adoption of renewable energy sources, improvements in energy efficiency, and the need for reliable decentralized power solutions.

AST M³ SYSTEM TECHNOLOGY

MONITORING (REPORTING)
- Visualization of data
- Focus on historical periods
- Reporting and transparency

MEASURING (CONTROL)
- Highly accurate real-time measurement
- Control & Process Optimization

METERING (BILLING)
- Legally compliant metering
- Required for financial transactions

GET IN TOUCH

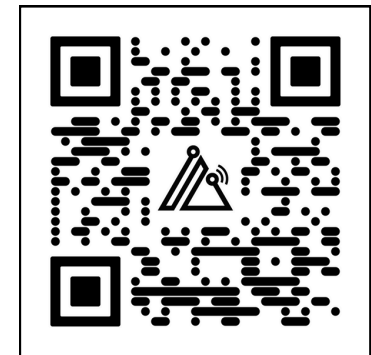**AST (Advanced Sensor Technologies) International GmbH**

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WHY AST

⚙️ ONE-STOP-SHOP INTEGRATION

- One interface standard
- Installation space optimized for your build
- Extensive integrations are no longer necessary

🔧 TECHNICAL FEATURES

- Precision DC energy measurement up to 5.000A / 1.500V for industrial, mobility, and hybrid AC/DC microgrid applications
- High sampling accuracy and real-time data acquisition for bidirectional energy flow
- Modular communication design supporting Modbus RTU, Modbus TCP, Ethernet and PROFINET
- Compact form factor for rack, panel or field installation
- Seamless integration into SCADA, EMS and smart-metering systems

📝 TRANSPARENT BILLING

- Traceable, auditable DC billing according to MID and German Eichrecht
- End-to-end transparency from source to Smart-Meter-Gateway
- Tamper-proof, cryptographically secured data
- Ideal for multi-stakeholder DC infrastructures, such as data centers, e-mobility hubs and industrial microgrids
- Compatible with operator-independent billing/energy-sharing platforms

AST PRODUCT OVERVIEW

DC160
- For low current applications
- Current: 1A - 160A
- Voltage: up to 1.000V

DC200 / DC650 / DC800 / DC1500 / DC3000 / DC5000
- Product family that covers the full measurement range
- Current: 2A - 5.000A
- Voltage: up to 1.500V

Need a tailored protocol? Add our Adapter Box to bridge your preferred interface without changing your core system. It translates seamlessly and keeps your integration clean and compliant.

AST INTERNATIONAL
ADVANCED SENSOR TECHNOLOGIES

DC GRID METER

Smart solutions for DC metering, measuring and monitoring