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BTCS

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TECHNOLOGY AND QUALITY FOR THE INDUSTRY OF THE FUTURE

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BTCS (Bluetooth Control Sensors) is an innovative, compact, and wireless **analog-to-digital converter** designed to modernize traditional analog torque measurement systems.

Developed by ASI DataMyte Italia, BTCS bridges the gap between analog strain gauge sensors and the digital, wireless requirements of modern industrial environments.

It is **specifically tailored for 1-2 mV/V strain gauge torque sensors**, converting their analog signals into Bluetooth-transmitted digital data without the need for redesigning existing hardware.

Key Features

- **Universal Analog Compatibility**
 - BTCS works with virtually any analog torque sensor featuring a 1-2 mV/V Wheatstone bridge output, **using a standard 15-pin connector.**
 - It allows industrial users to preserve their trusted analog sensors while bringing them into the wireless era.
- **Bluetooth Wireless Data Transmission**
 - Enables **real-time digital communication over Bluetooth**, avoiding traditional cabling limitations.
 - Supports any third-party data acquisition platform via open source protocol (ASCII strings).



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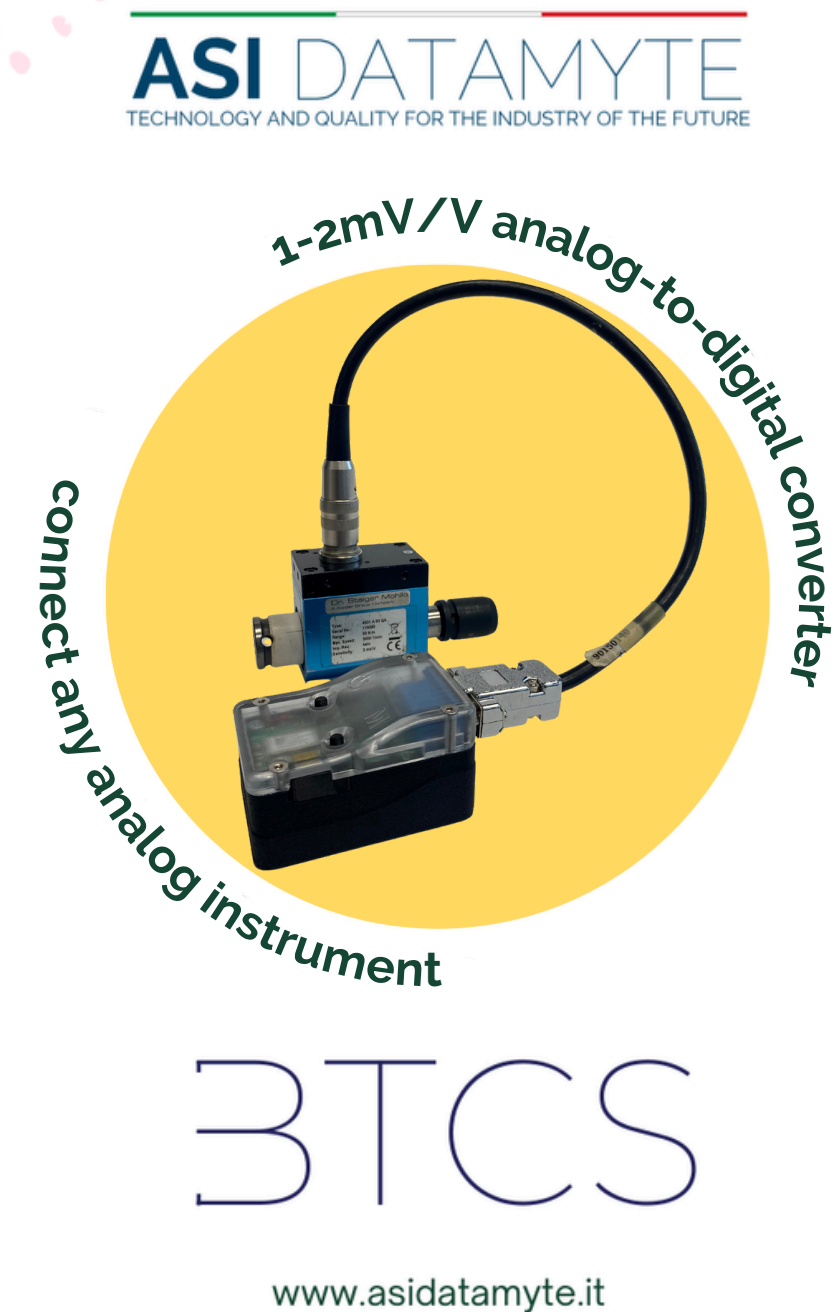
Key Features

- **Sequential Multi-Sensor Operation**
 - Users can sequentially connect multiple sensors to a single BTCS unit, thanks to software-based recognition of sensor parameters.
 - This function makes BTCS ideal for flexible setups such as dynamic test benches and tool change scenarios.
- **Compact, Lightweight and Rugged Design**
 - Small enough to mount directly on the sensor using Velcro and a short cable.
 - Industrial-grade casing ensures durability even in harsh operating conditions.
 - **Powered by standard rechargeable batteries**, ensuring freedom from proprietary power formats and simplifying logistics.

Applications

BTCS is ideal for high-precision industrial and laboratory use cases, including:

- Rotating torque measurement in electric motors, gearboxes, and automated tools.
- Validation and R&D of drive systems in automotive, aerospace, and robotics sectors.
- Retrofitting analog benches, adding Bluetooth transmission to legacy systems without hardware redesign.
- Mobile testing and diagnostics, where cabled setups are impractical.
- OEM integration, embedding wireless capability into sensor offerings.



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Competitive Advantages

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- Cost-Efficient Upgrade: A modular and budget-friendly alternative to built-in Bluetooth sensor systems.
- Non-Invasive Retrofit: Adds Bluetooth capability to existing analog setups with no major infrastructure changes.
- Full Interoperability: Integrates with any data logging system or software via open source protocol (ASCII strings).
- Easy Maintenance: Rechargeable battery design and plug-and-play connectivity minimize technical barriers and downtime.

Ideal Partners

BTCS is intended for:

- Manufacturers of analog torque sensors wishing to offer Bluetooth-ready solutions.
- OEMs and industrial system integrators aiming to digitalize torque data collection.
- Test bench builders, engineering labs, and automation companies seeking flexible, wireless measurement tools.



THANK YOU FOR YOUR ATTENTION

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TECHNOLOGY AND QUALITY FOR THE INDUSTRY OF THE FUTURE

 Via San Luigi 13/B, 10043 Orbassano (TO), Italy

 +39 011 9040867

 info@asidatamyte.it

 commerciale@asidatamyte.it