

# METROFLEXx

*Brake control system for mass transit*

**The most advanced, lightest weight, fastest response time, integrated brake control.**



Metroflexx is designed to provide service brake, emergency brake, wheel slide protection and train communication.

Metroflexx offers a very fast response time, the lightest weight available on the market, an extended 10 years MTBO, high scalability and a very flexible and simple TCMS connection.

## KEY CUSTOMER BENEFITS

### Highly scalable architecture

to fit with you Guaranteed Emergency Brake Rate (GEBR) needs

### Smart pressure management

for 10-year MTBO

### Extended communication capability

for low integration cost

### Very fast response time

for low dwell time & line efficiency

### High pressure accuracy

for accurate braking distance

### Very low weight

for energy efficiency

### Real time data collection, embedded event recorder and CBM ready

for low operation cost

### Safety certified

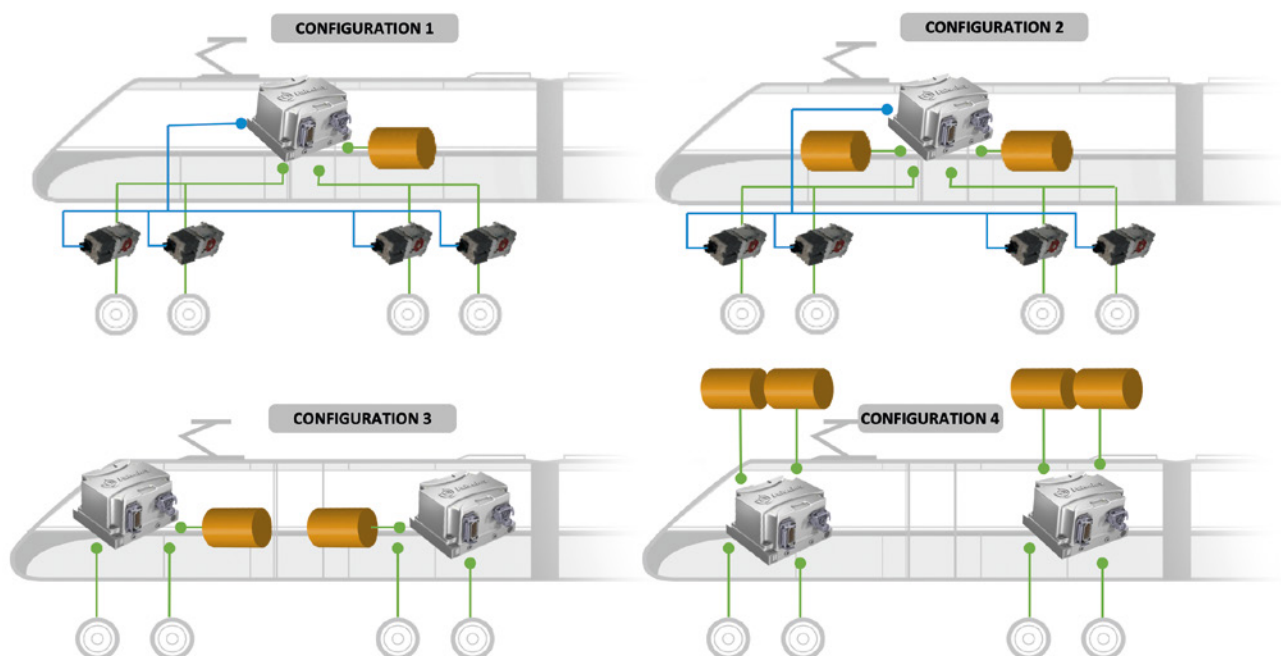
by TÜV SÜD to reduce project risks and ease execution

### Compliant

to cybersecurity standards



## METROFLEX CONFIGURATIONS



- **Configuration 1:** Emergency brake per car, service brake per bogie
- **Configuration 2:** Emergency brake per bogie, service brake per bogie
- **Configuration 3:** Emergency brake per bogie, service brake per axle
- **Configuration 4:** Emergency brake per axle, service brake per axle
- **In all configurations** WSP is per axle

## PRODUCT SPECIFICATIONS

Dimensions	270x315 H192, without mating connectors
Weight	Less than 10 Kg
Main technical features	<ul style="list-style-type: none"> <li>• Air supply up to 10 bar;</li> <li>• 70 to 140Vdc , 60W power consumption</li> <li>• -40 to +55°C [-40 to +131°F] operating temperature</li> <li>• Can, Ethernet, MVB and Echelon networks are available</li> <li>• Up to 2 pneumatic channels spare input available</li> <li>• Service brake and remote release per axle</li> <li>• Emergency Brake SIL4 at train level; service brake SIL2 at bogie level; WSP implemented SIL2 at bogie level</li> <li>• Electronic pressure switch available SIL2 at bogie level</li> <li>• Park Lock ready system SIL2 at bogie level</li> <li>• Long life of components, 10 years to overhaul</li> <li>• Low weight components and simple concept design</li> <li>• High flow brake valve with large flow exhaust section suitable to perform WSP function and a fast pneumatic reaction</li> </ul>

## CONTACT

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