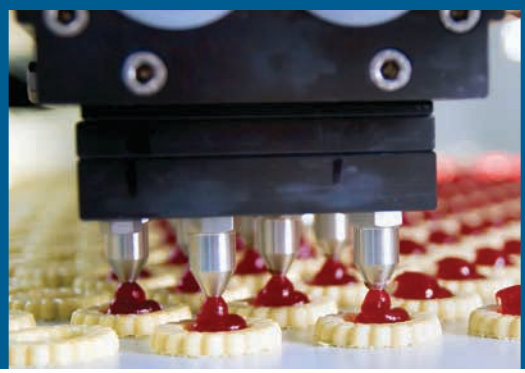
Load Cells with CANOpen Protocol

Market Solutions


Your Essential Communication Protocol for Vehicles and Automated Weighing or Force Sensing Applications

Features

- Up to 6000 meter range
- Complies with Device Profile CiA 305
- CAN bus boot-loader
- Electronic datasheet provided
- Up to 127 devices in a single network
- Customizable object dictionary
- High transmission speed and reliability
- Widely used international standard
- Automotive grade power supply
- Designed for safety related applications. Complies with ISO13849 PL=C/D
- Two parallel strain gage channels can be used for redundant designs as part of safety related application of multi-axes load cell
- Temperature and power supply monitor
- Advanced diagnostics

Applications

- Industrial vehicles
- Process weighing
- General automation

Options

- 1 Mbps data transfer speed
- Custom solutions

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Instant Connectivity, Simplified Installations

VPG Transducers strives to be on the cutting edge of innovation and develop solutions for upcoming industry demands. This commitment allows us to proactively offer our customers valued solutions. We are one of the first companies to offer indicators and load cells that are compatible with the CANOpen protocol, a communication and automation protocol for use in vehicles, production lines and other automated industrial systems.

Developed in 1994 as an extension to the CANBus serial bus, CanOpen is a fully realized 7-layer protocol system, according to the Open Systems Interconnection (OSI) reference model. It features powerful solutions at every level: from defining aspects of the physical layer, such as bit-rate, to much more complicated functions, like data compression and conversion. Being a data objects driven system, comprehensive device profile setups allow for a seamless "plug-and-play" installation. Added devices will function immediately upon inclusion in a CANOpen system and can be swapped out easily.

By default, VPG Transducers offers the CiA 305 device profile for measuring devices. Additional profiles with application-specific uses are also available. VPG Transducers is rolling out CanOpen integration to more and more products over time. Please contact the Custom Solutions team for current information.

	CANOpen	Sample Products
Typical Applications	Process industry, process control and automation construction equipment, building automation, factory automation	 For product specifications, visit vpgtransducers.com
Data Rates, bits/s	Up to 1 Mbps	
Communication Technique	Producer/Consumer, Peer to Peer	
Media Access Algorithm	CSMA/CD	
Media Supported	Twisted pair	
Max. No. of Nodes	127	
Physical Layer Standard	Balanced differential voltage	
Applicable Standards	ISO 11898 , CiA 305 Device profile	

At VPG Transducers, we understand that each application can be unique or special. Please contact our in-house Custom Solutions team to engage our services towards meeting your specific requirements:

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For technical questions, contact: vpgt.americas@vpgsensors.com, vpgt.asia@vpgsensors.com, vpgt.emea@vpgsensors.com
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