



BoltSafe CM-1000 Network Adapter

The CM-1000 Network Adapter box is designed to connect from 1 to 8 individual BoltSafe Sensors CMS to a network cable. A network can consist of several Network Adapter boxes. The unit is designed to provide excellent shielding against rough environments and EMC noise.



Usage

The CM-1000 performs local processing of the sensor data, converts sensor values to kN or lbs, stores tag name and alarm limit values, and has a unique serial number and node number.

This method of decentralising the data processing speeds up the network data polling considerably. Even in a large network any BoltSafe sensor can be updated every 1-3 second.

The unit communicates with the network and the polling PC with an RS-485 communication port at a speed of 115.2 kbps. When the system is configured, the BS-2000 software automatically assigns node numbers to each and every unit connected to the system. There is no need for any address setting or coding during installation.

The CM-1000 has short circuit protection for each of the sensors. This prevents situations where short circuit in one cable or sensor, pulls down and stops the whole network.

The CM-1000 is delivered in two ways to connect:

- One is prepared with glands and screw terminals for up to 8 BoltSafe Sensors CMS. This version is to be used for connecting BoltSafe CMS Sensors with “flying leads”, i.e. no connector plug.
- The other version is prepared with connectors. This version is to be used for connecting BoltSafe CMS Sensors with connector plugs.

For both ways the Network cable terminators are gland and screw terminals.

General specification

Connection capacity:	8 sensors
Serial communication:	RS-485 / 115.2 kbps
Supply voltage:	9 - 24V, Powered through network cable
Temperature range	
Connector version	-25°C to +80°C
Screw terminal version	-40°C to +80°C
Sealing:	IP67
Material:	Stainless steel
Sensor cable inlets (8)	
Connector version:	Phoenix M12 female connector
Screw terminal version:	PG9 (EMC)
Network cable inlets (2):	PG11 (EMC)
CE-approval:	Tested to comply with: Emission EN 50081-1, EN 55022B Immunity EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6 ENV 50204

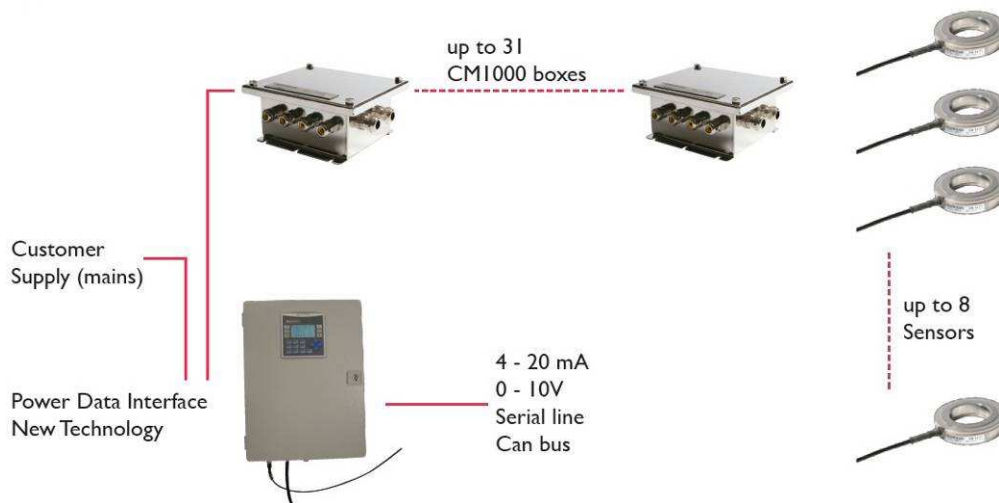
Note:
Due to continuous product improvements, published specifications may change without notice.



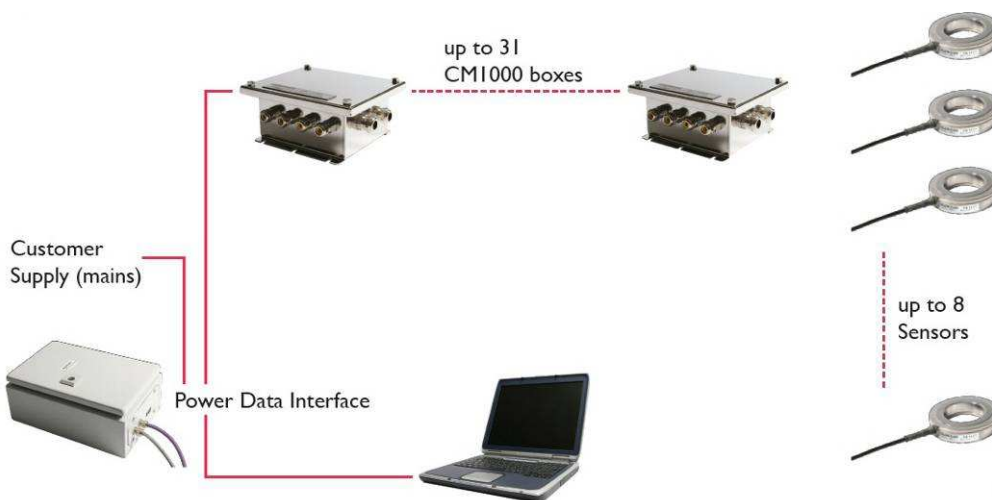
Network

CM-1000 is connected together in different network sizes regarding customer's need.

The maximum number of CM-1000 in one network is 31 boxes with 248 BoltSafe sensors connected. CM-1000 is connected together with a network cable. Maximum network cable length in one network is 250 meters, includes lengths from PDI to the last box in the end of the network.



Network with PDI-NT



Network with PDI and PC

For more information:

BoltSafe	Platinawerf 8	Tel: +31(0)24 – 6 790 797	info@boltsafe.com
Division of Total Flange Care BV	NL – 6641 TL BEUNINGEN	Fax: +31(0)24 – 6 790 799	www.boltsafe.com