

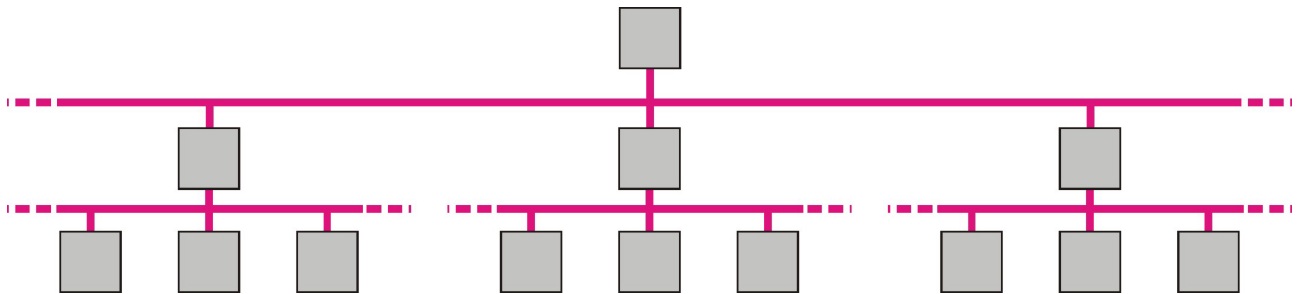
Compass

Introduction

Introduction

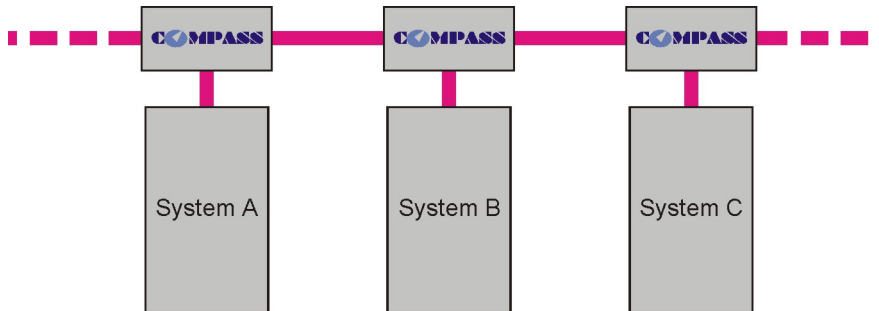
The Multilayer Model

North Building Technologies Ltd. base all their products on a multilayer model, which allows the products to be connected together in a logical way. The model divides different areas of function within a building and links them with a network. Each functional area is again divided into areas, which are again linked with a network. This dividing and linking provides a scalable model, which can extend upwards to include international networks such as the Internet, and downwards to small networks for linking sensors together.



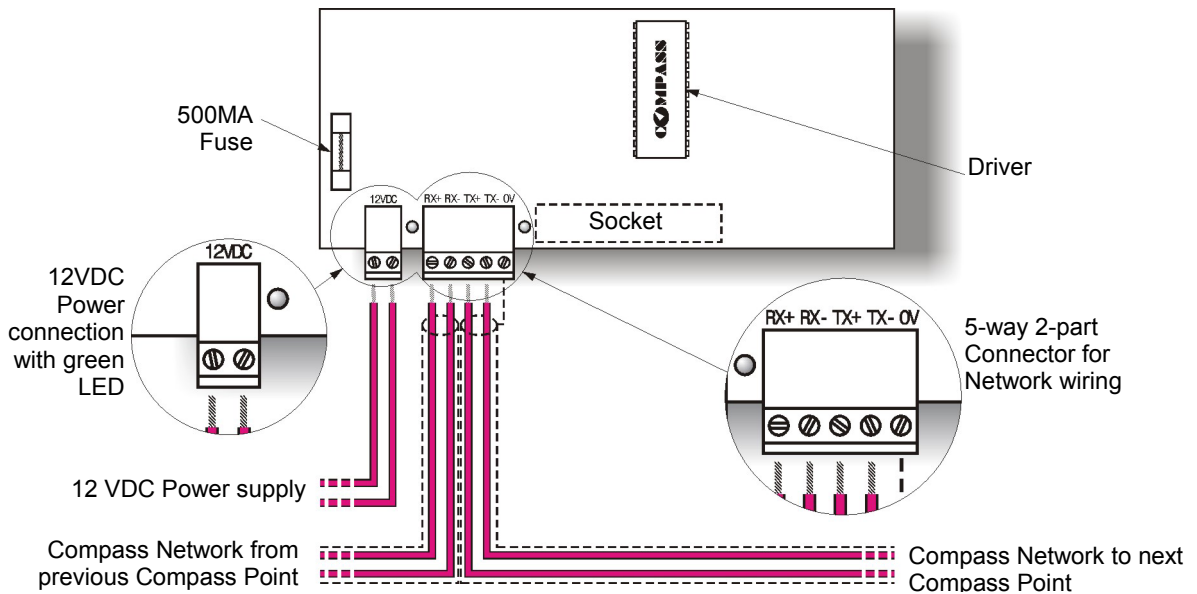
The Compass System

Compass is a distributed protocol conversion system, and allows control systems from several different manufacturers to be linked together to form one complete building control system that can share values over a network. The network is made up of nodes, called Compass Points, and each Compass Point connects a particular device or system to the network.



Compass Points

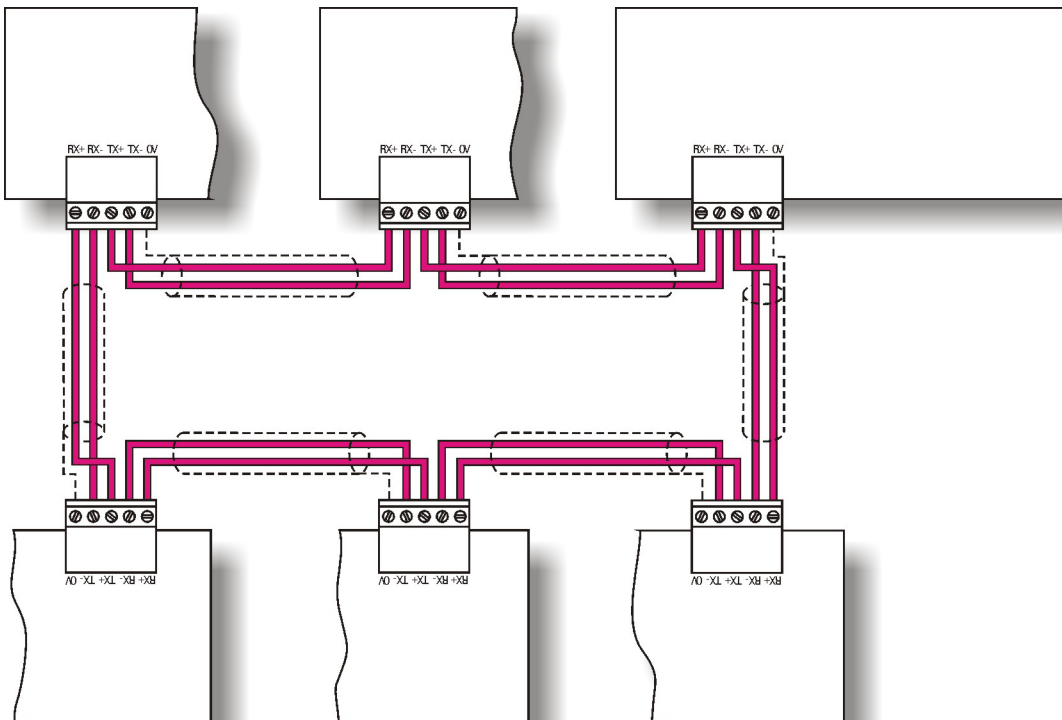
Compass Points link devices from different manufacturers to the Compass Network. A range of Point hardware types cater for different physical device connections. Within a Compass Point a 'driver', (the protocol converter) converts the manufacturer's protocol to the Compass Network Protocol.



For more Information on the range of Compass Points, see ["Introduction to Compass Point Types"](#)

Compass Networks

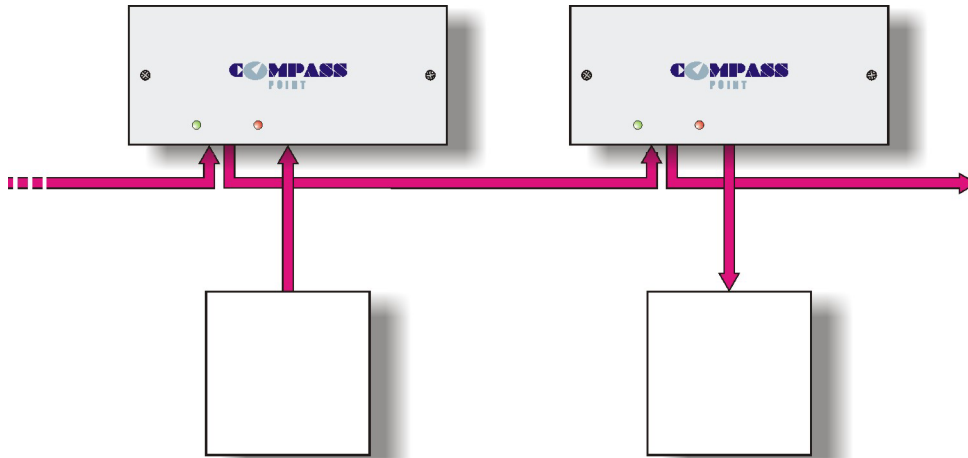
A Compass Network is made up of Compass Points. Each Point has two network links; one to the previous Point and one to the next. This linking method forms a 'ring' of Points. Compass Points communicate around the 'ring' using the Compass Network Protocol.



For more information on the Compass Network see ["Introduction to Compass Network"](#)

Transferring Data

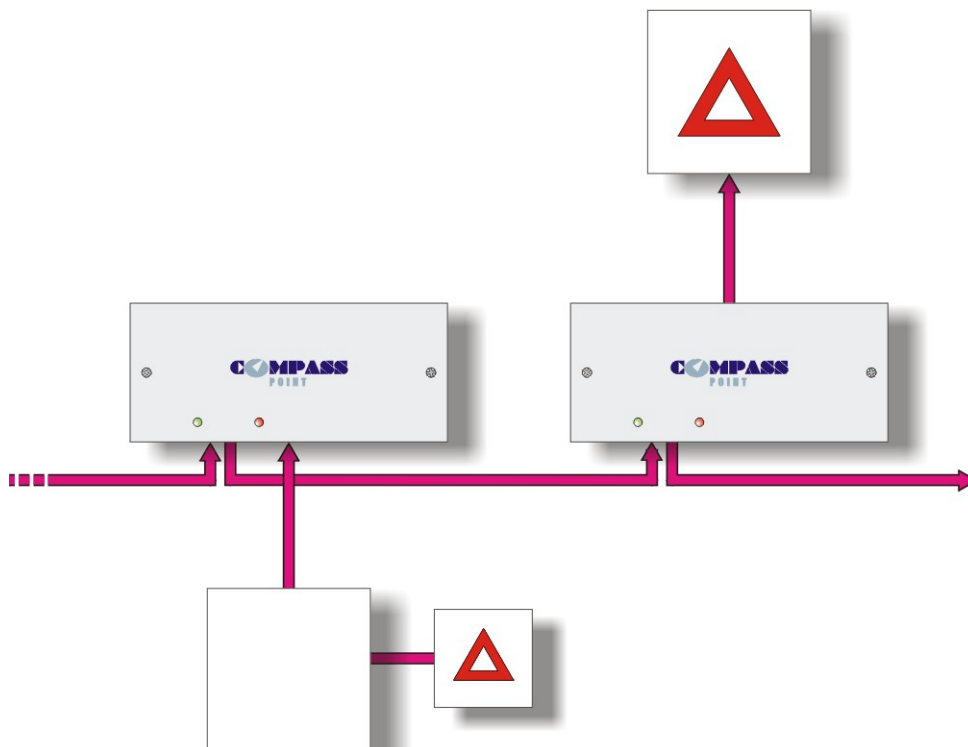
One of the uses of the Compass Network is to allow values from one system to be passed to others. 'Transfers' within each Compass Point perform this task.



For more information on the Compass Transfers See ["Introduction to Compass Transfers"](#)

Alarm Delivery

Some third-party systems generate alarm messages (fire, door entry, security, power failure etc). Each Compass Point can deliver alarms in a variety of ways, to other Compass Points.



For more information on the Compass Alarms See ["Introduction to Compass Alarms"](#)