



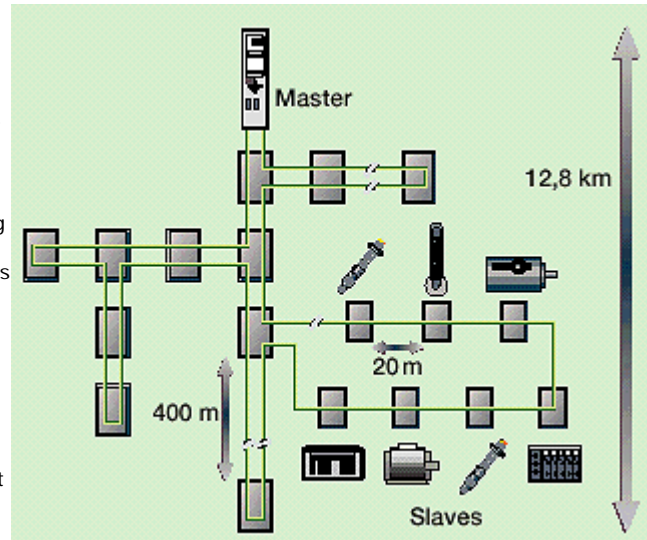
INTERBUS has been designed as a fast sensor / actuator bus for transmitting process data in industrial environments. Due to its transmission procedure and its ring topology, Interbus offers excellent features like fast, cyclical and time-equidistant transmission of process data. Optimal diagnostics to minimize maintenance periods, easy handling and installation (plug & play) as well as the optimal prerequisites for the use of fibre optic technology.

INTERBUS is a ring system, i.e., all devices are actively integrated in a closed transmission path. Each device amplifies the incoming signal and sends it on, allowing higher transmission rates at longer distances. Unlike other ring systems, the data forward and return lines in the INTERBUS system are led to all devices via a single cable. This means that the general physical appearance of the system is an "open" tree structure. A main line exits the bus master and can be used to form seamless subnetworks up to 16 levels deep. This means that the bus system can be quickly adapted to changing applications.

The INTERBUS master/slave system enables the connection of up to 512 devices. The ring is automatically closed by the last device. The point-to-point connection eliminates the need for termination resistors. The system can be adapted flexibly to meet the user's requirements by adding or removing devices. Countless topologies can be created. Branch terminals create branches, which enable the connection and disconnection of devices. The coupling elements between the bus segments enable the connection and disconnection of a subsystem and thus make it possible to work on the subsystem without problems, e.g., in the event of an error or when expanding the system. Interbus is specified in the international fieldbus standard IEC 61158.

**Where is it used and with what products?**

Interbus is used mainly in Germany but also in 100 countries worldwide. It is specifically designed for fast sensor / actuator bus for transmitting process data in industrial environments and has fibre optic capability



**Interbus & AnyBus**

HMS has an Embedded AnyBus-S Slave Interface & 2MB Fiber-Optic Slave Interface together with the AnyBus-X Bridge/Gateway giving you a choice to bridge Interbus with any of 14 other fieldbus networks.

## Interbus Facts

<b>Network Size:</b>	Max: 512 nodes
<b>Network Length:</b>	400m between 2 remote bus devices 13km with RS-485 and 50km with fiber optic
<b>Data Rate:</b>	500kBit/s - 2MBit/s
<b>Bus Topology:</b>	Active Ring Bus
<b>Addressing:</b>	Master/Slave, cyclic and PCP messages
<b>System Feature:</b>	Possibility to define 256 own PCP-objects + own VFD-objectSupports PMS services: PCP V2.0; Initiate, Abort, Reject,

## Interbus AnyBus Products



### Embedded Products

- ▶ [AnyBus-S Slave Interface](#)
- ▶ [AnyBus-S Fiber-Optic Interface](#)



### Networking Products

- ▶ [AnyBus-X Bridge/Gateway](#)

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