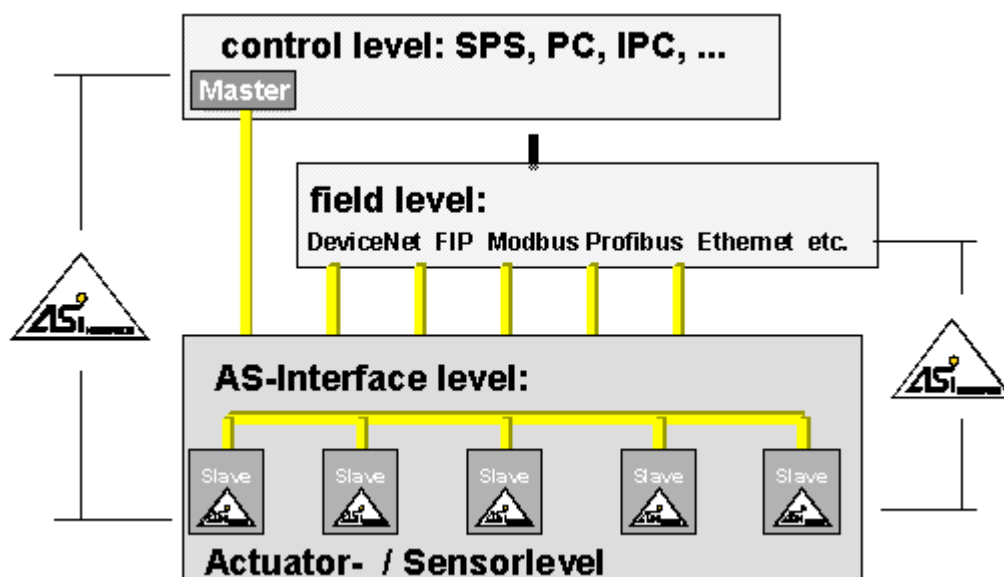AS-Interface, the Actuator Sensor Interface offers many of the benefits of more powerful and expensive fieldbuses, but at much lower cost and as a much simpler installation. Based on digital technology and optimized for binary peripherals, AS-Interface networks are simple to design, install, operate and maintain. Conventional sensors and actuators can be easily integrated, resulting in a networking solution of substantial flexibility and high functionality. AS-Interface devices are powered from the AS-Interface cable which contains data and 24V power on the same line.

AS-Interface should not be compared with higher level fieldbuses providing sophisticated performance at much higher cost! AS-Interface is tailored to the needs of devices such as sensors and actuators where low connection cost per node is critical and simplicity is paramount. Furthermore, established skills can still be utilised so AS-Interface ensures fast uptake and ready acceptance by existing operating and maintenance personnel.

Typically, cost savings are 15-40% compared with traditional cabling methods, whilst 'per node' connection costs can be in the range $15-$20, including engineering. However, the ongoing benefits of digital messaging ensure enhanced operations and maintenance too, which means whole life costs are much reduced whilst product quality and consistency are significantly improved because of better performance and less downtime.

Where is it used and with what products?
"AS-Interface" means acutators and sensors interface. It is specifically designed for these types of products and is used worldwide, however it is very prominent in Europe, especially in Germany and has the backing of Siemens.

AS-Interface & AnyBus
HMS has a variety of products supporting AS-Interface. The embedded AnyBus-M Master Interface, AnyBus-PCI Master Interface and AnyBus-X Bridge/Gateway giving you a choice to bridge AS-Interface with any of 14 other fieldbus networks.

AS-Interface Facts

Network Size:	Support for 62 nodes
Network Length:	Max 300m with 3 repeaters
Data Rate:	167kbit/s
Bus Topology:	Flexible, Star, Line & TreeBus
Addressing:	Master/Slave
System Feature:	Transmission of analog signals via time multiplex procedure. Data and power via the same line. No termination necessary. Address setting automatically from the master or via service tool. ASI conformant power supply required

AS-Interface AnyBus Products

Embedded Products
▶ AnyBus-M Master Interface

PC Interface Products
▶ AnyBus-PCI Master Interface

Networking Products
▶ AnyBus-X Bridge/Gateway

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