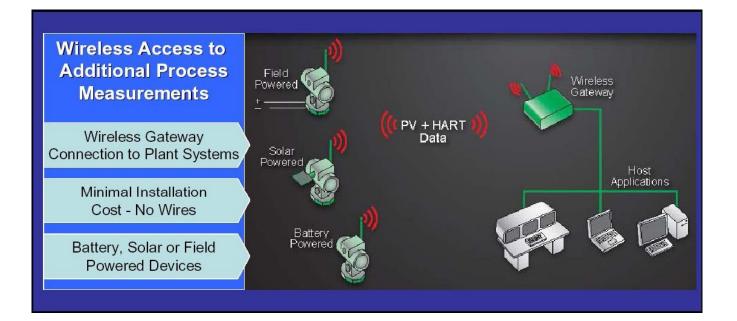


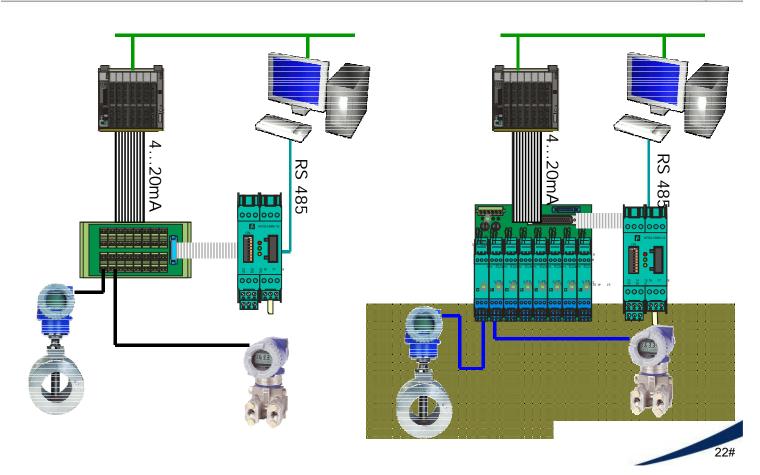
Wireless Devices for Measurement or PAM

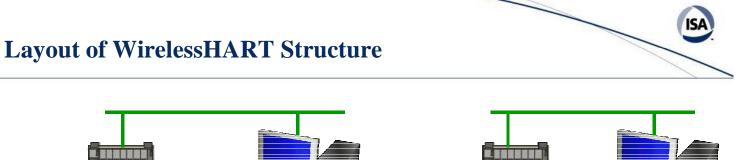


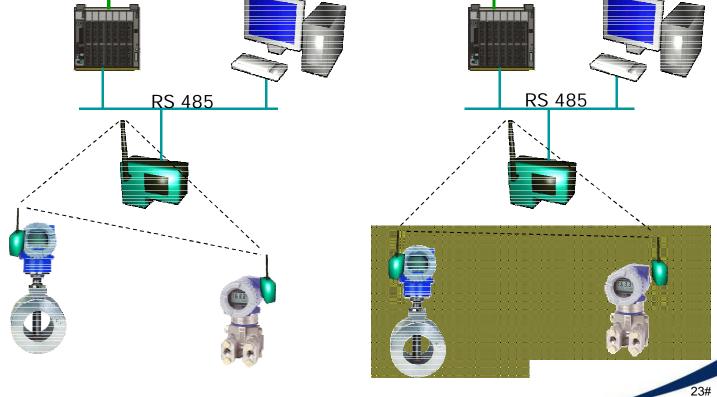




Layout of Wired HART Structure







What is Fieldbus?



Fieldbus is a digital, two-way, multi-drop communication link among intelligent measurement and control devices. It serves as a Local Area Network (LAN) for advanced process control, remote input/output and high-speed factory automation applications.

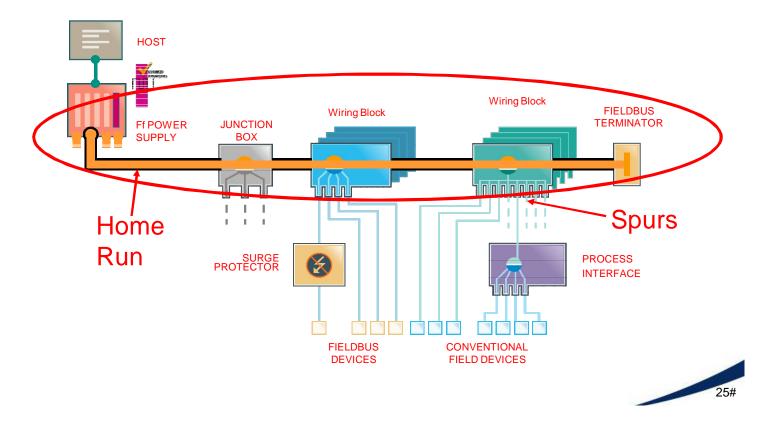


How Do we Link the Various components in the network?



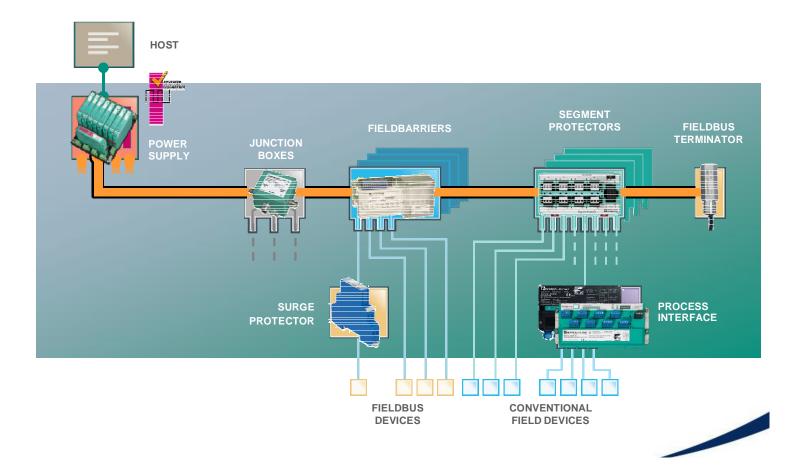


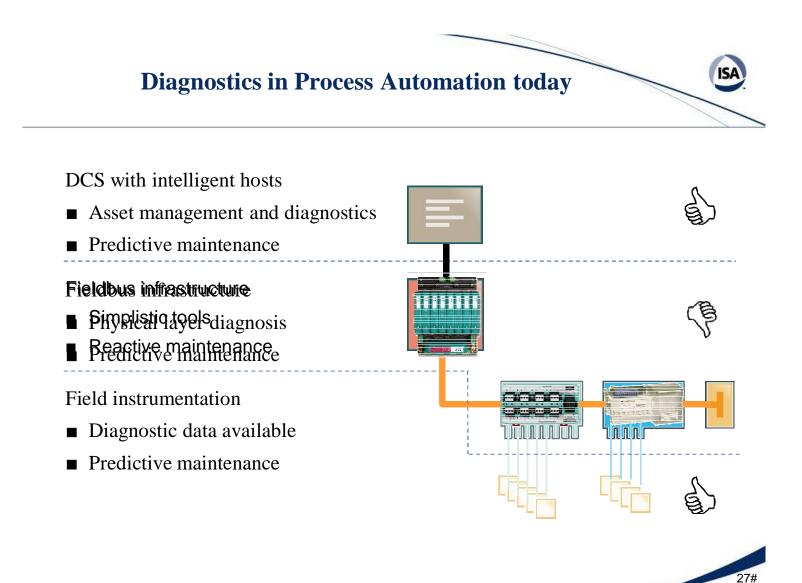
FF - Power Supply, Cables, Surge Protector, Terminators, Wiring Blocks, Process interfaces etc





Typical FOUNDATION® Fieldbus Layout







- The quality of the fieldbus physical layer is more critical compared to 4-20mA
 - One failure on fieldbus physics can effect several devices connected to a segment
- To determine the quality of a fieldbus segment a high degree of technical knowledge and sophisticated electronic equipment is necessary





The need of Physical Layer Diagnostics

- Each component connected to a fieldbus segment could influence the quality of a physical layer
 - Host
 - Power supply
 - Terminators
 - Current limiting devices (Segment Protectors, FieldBarriers)
 - Field devices
 - Cable
 - Topology
 - ...



