Profibus PA Linking Devices

A fully integrated, user friendly solution
1788-EN2PAR – EtherNet/IP to PA and 1788-CN2PAR – ControlNet to PA

Features & Benefits

- Redundancy Options
  - Redundant linking devices
  - Redundant PA media
  - Redundant ControlNet media
  - EtherNet/IP Device Level Ring
  - Redundant Controllers
- Fully integrated solution through the PlantPAx™ process automation system
- No external configuration software
- Config & Diagnostics in AOP
- Convenient web interface
- Add devices while online
- Auto device discovery and configuration
- Supports 24 devices on a single segment
- 8 Input & 8 Output PVs per field
- Built-in power conditioners and protection provided on two PA ports supply 500mA each
- DTM available for asset

The 1788-EN2PAR and the 1788-CN2PAR provide a fast, fully integrated and easy-to-use solution for adding Profibus PA to any Logix platform. The modules provide a direct link from EtherNet/IP and ControlNet respectively, to the Profibus PA device level protocol without a Profibus DP layer.

Integration into RSLogix™ 5000 is made seamless by the module’s Add-On-Profile (AOP) which provides an intuitive environment for the configuration the field device network and all field devices. The AOP captures all Process Variables (PVs) in Engineering Units and provides PV status data and extended device diagnostics. Devices can also be quickly configured using the auto configure tool.
The 1788-EN2PAR and 1788-CN2PAR support up to 24 field devices on a single PA segment which can be split between two fieldbus ports. A built-in power conditioner can supply 500mA on each port, alleviating the need for additional external components. The linking device is panel and DIN Rail mountable.

Multiple fieldbus topologies are supported include ring, split, and dual bus, together with options for redundant Ethernet and ControlNet media, redundant H1 fieldbus media, and redundant linking devices. The 1788-PARJB redundant fieldbus junction box must be used in redundant H1 topologies.

FDT/DTM technology is supported, allowing direct access to field device diagnostics and parameters. In addition, the Rockwell Automation FTD Thin Frame (read only) can be launched from HMI or RSLogix 5000, providing operators and technicians a graphical view of each field device’s status and extended diagnostics.

A 128 x 128 pixel display provides access to linking device status including network voltages and currents, internal temperature, together with communication quality to each device, and the status of each device. A built-in webserver also provides access to network and field device data.

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One of Multiple Architecture Options
Single Master – Split PA Bus, Terminated

AOP User Interface

Diagnostic Scope Trace