Facility Monitoring System (FMSNet)

HPC600

PoE Ethernet

RPC200

Introduction

FMSNet is a remote control software developed by Hal Technology (HalTech) to support Hal Technology's clean facility monitoring devices or instruments. HalTech provide unique configurations of facility monitoring systems for 7/24 continuous monitoring clean environments.

Power over Ethernet provides the ability to detect attached powered devices (PD) and deliver 48 VDC to the PD via existing CAT5 cabling. The PoE devices are fully compliant with the IEEE 802.3af power over Ethernet standard. By default, the PoE switches discover and provide power to IEEE-compliant PDs.

HalTech's Solutions
# for Cleanroom Facility Monitoring

- Hal-HPC600 six-channel handheld hybrid particle counter can be operated in a multi-point internet/Ethernet wired system without need of extra vacuum sources.

- Hal-RPC200 two-channel remote particle counter can be operated in a multi-point internet/ethernet wired system with Power_over_Ethernet support

- Hal-RPC201 two-channel remote particle counter can be operated in a multi-point serial communication system

HalTech

Typical HalTech Facility Monitoring System
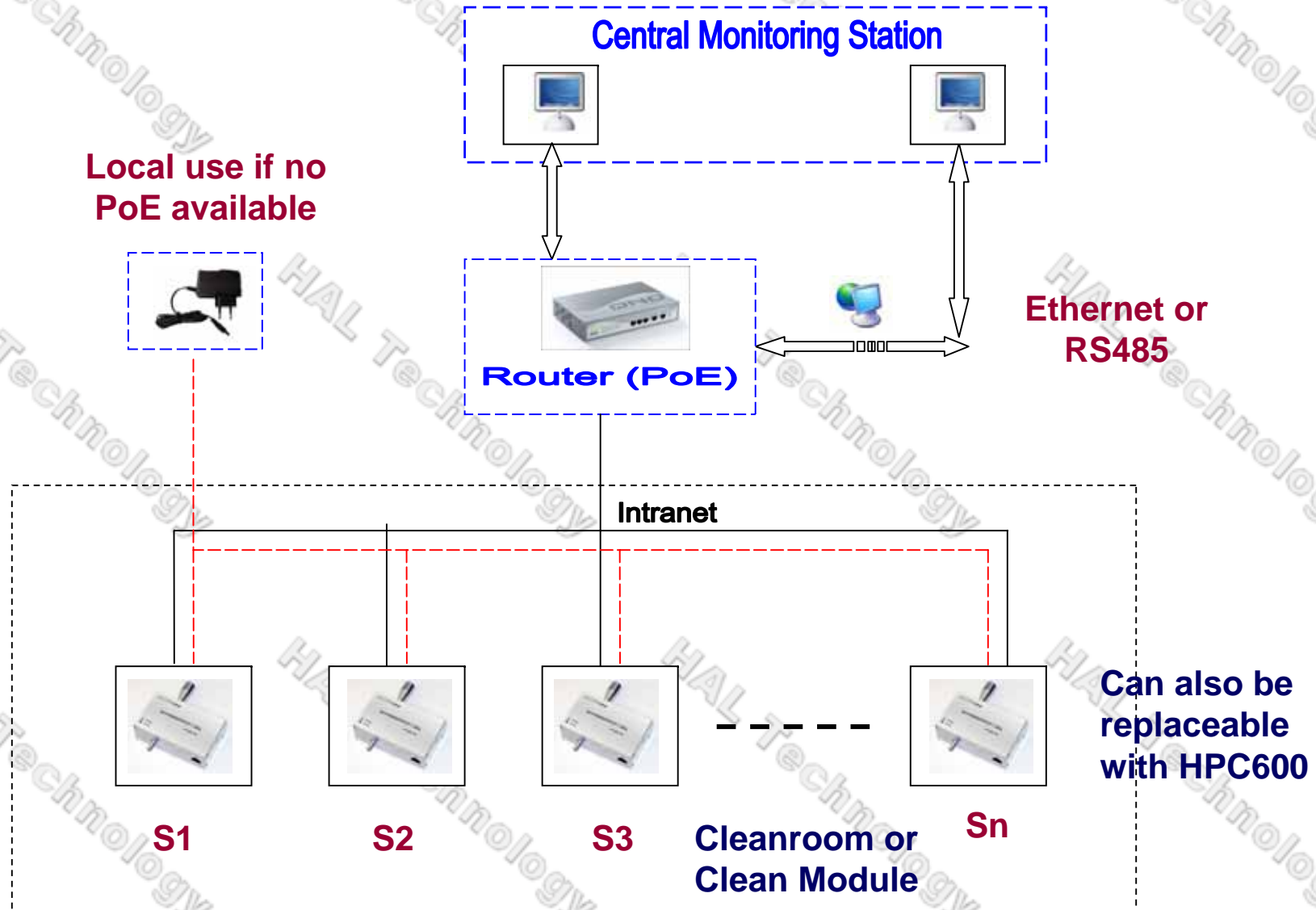
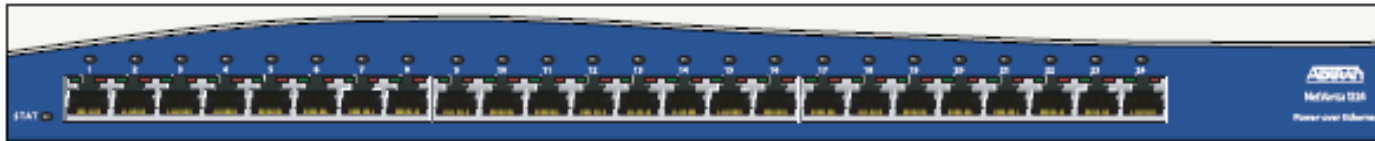# FSD804 8-channel PoE Fast Ethernet Switch/Router

Front Panel
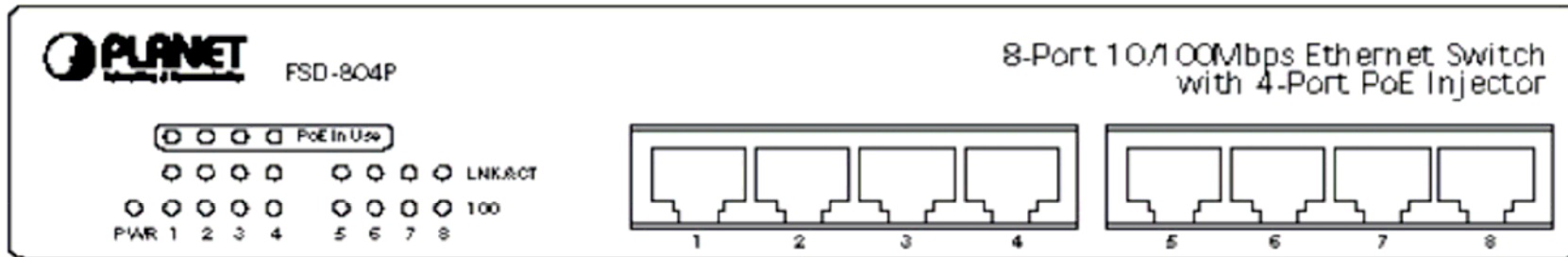
Rear Panel

The FSD-804 is able to support power to 4 IEEE802.3af compliant powered devices. 8-Port RJ-45 for 10/100TX 4-Port with PoE injector function
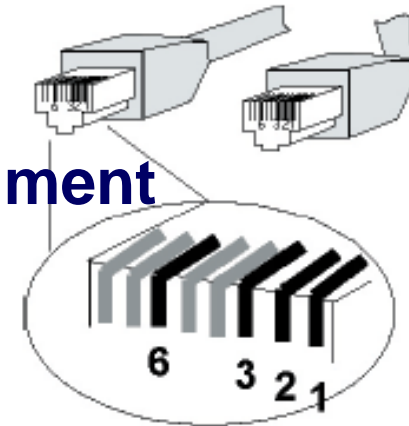
24-Channel PoE Switch/Router

Front

Rear

RJ-45 Receptacle/Connector Pin Assignment

RJ-45 Connector pin assignment		
Contact	MDI Media Dependant Interface	MDI-X Media Dependant Interface -Cross
1	Tx + (transmit)	Rx + (receive)
2	Tx - (transmit)	Rx - (receive)
3	Rx + (receive)	Tx + (transmit)
4, 5	**Not used in standard and +48V for PoE**	
6	Rx - (receive)	Tx - (transmit)
7, 8	**Not used in standard and -48V for PoE**	

Advantages of HalTech System Solution

- Unique Ethernet communication system with convenient power

- Simple system configuration and easy installation

- Flexible and scalable system

- No extra power supply needed with PoE option

- Alarm setting and notifications

- Compatibility with major manufacturers

Overview of FMSNet Software

Setting Menu

Set system parameters
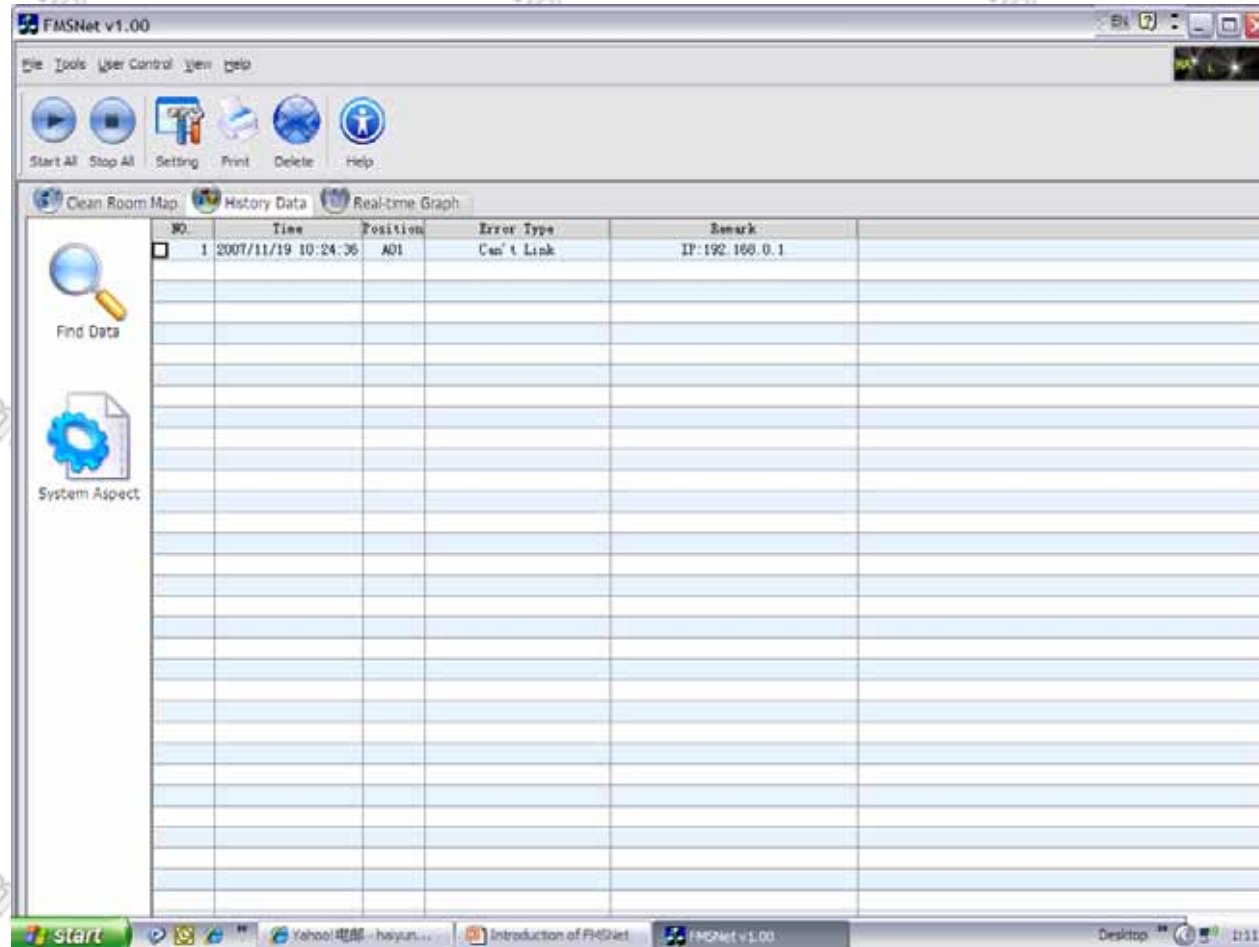
Tools

Settings and language selections
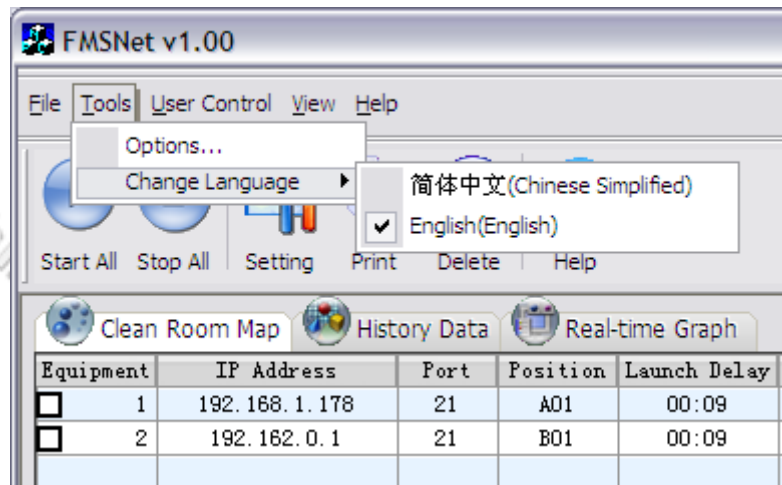
Historic data

Real time data and historic data listed in the table

Real Time Graph

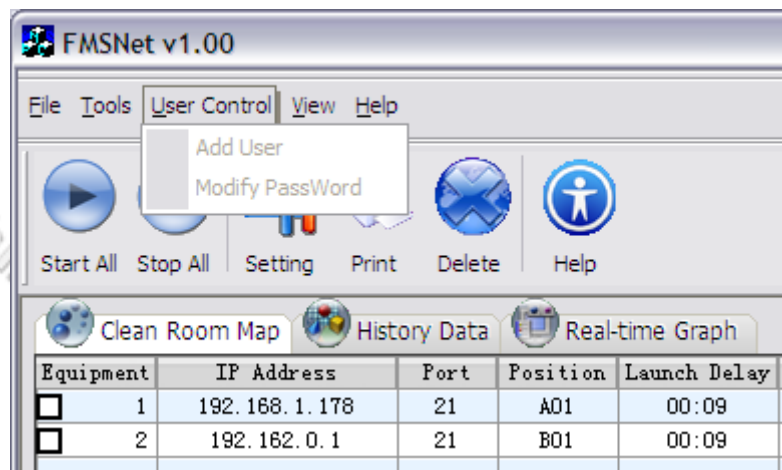**Chart shows trend line of each channel in real time**
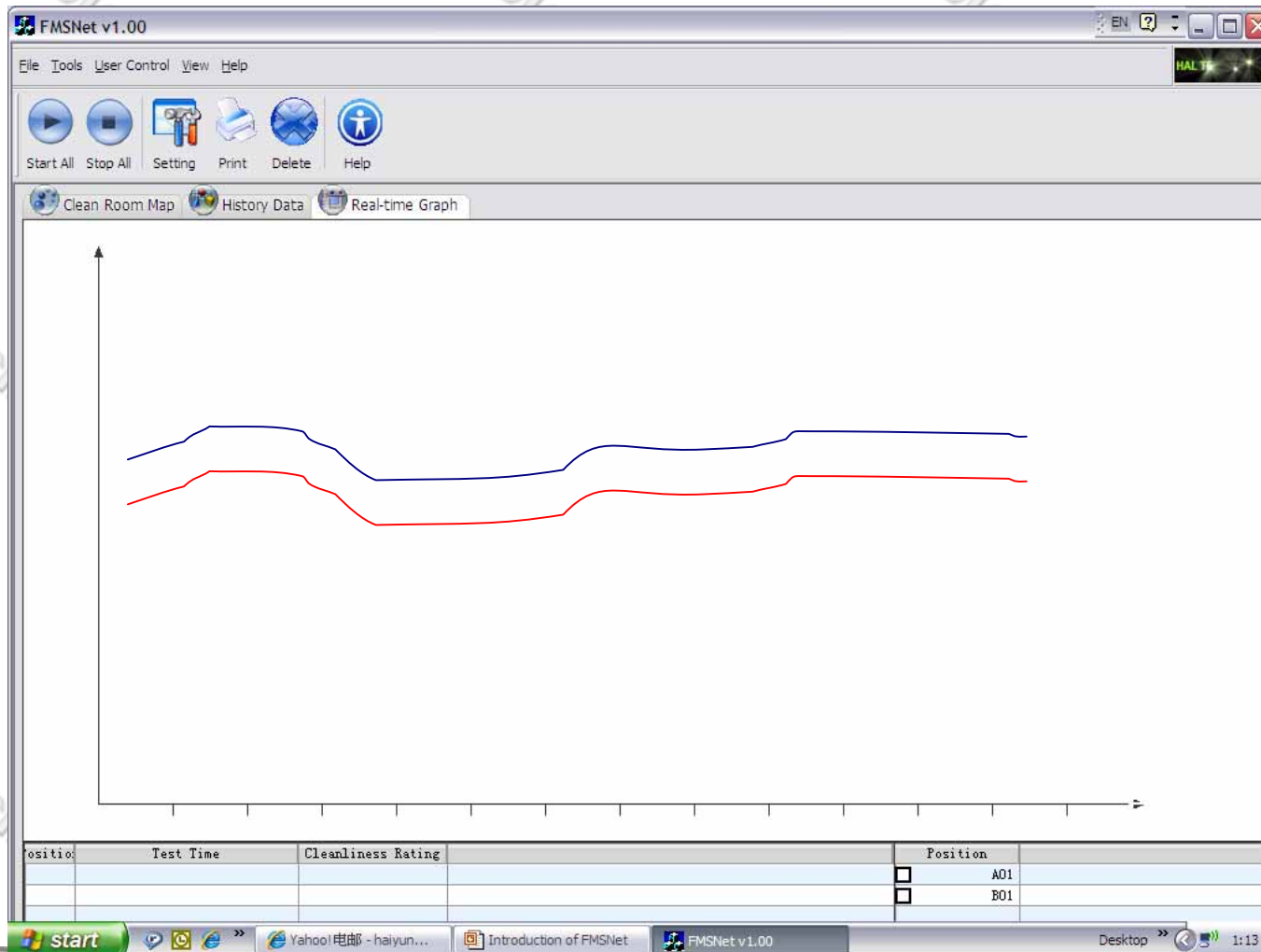
Menu Bar – User Control

Assign users access level and password

Menu Bar - File

Menu Bar - View

Turn on or off the status bar or tool bar
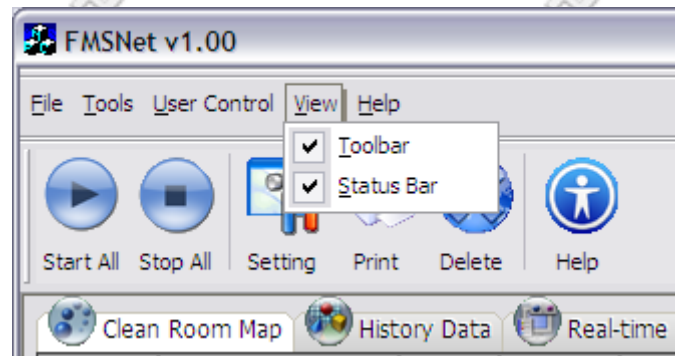
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