

Production Real Time Monitoring System



Overview and Applications

Production real time monitoring system (PMS) is the system designing for industrial companies having counting or producing, on the other hand, to increase capacity in production controlling and efficiency in working. The system is shown production as real time and it can be connected as network RS-485 to control working and show the result through computer program which is free of change. Moreover, it can be show the result of cards or labels throughout LAN system (TCP/IP) by unlimited number of computers. Thus, it depends on Management's need or grouping of cards or labels only important portion of production.

Features and Benefits

Also, its system having warning system to point out problem or need help point while producing which can be easily to controller to immediately inspect or solve the problem. So it shall be suitable for big industrial factories and having a lot of lines in producing due to the system can be abruptly connected to network system (RS485). (PMS) features intelligent display and real time clock built on the solid state technology, our large bright LED display systems deliver both reliability and functionality in terms of clear, sharp and direct visual information. To create a favorable climate for the deployment of production management concept among all staffs, (PMS) becomes an effective data-channel between manager, supervisor, and operators. Ideal for application in TQC, ISO9001 or ISO14000 programmes.

Technical Specification

Number of Row	4 rows
Number of Digit	row 1 : ID = 3 digits, CLOCK = 4 digits, DAILY PLAN = 4 digits
	row 2 : PLAN = 4 digits
	row 3 : ACTUAL = 4 digits
	row 4 : DIFF = 5 digits
Label for Each Row(Screen)	row 1 : ID, CLOCK, DAILY PLAN
	row 2 : PLAN
	row 3 : ACTUAL
	row 4 : DIFF
Digit Height	row 1 : 1"
	row 2 : 2.3"
	row 3 : 2.3"
	row 4 : 2.3"
LED Type	LED Display (7-Segment)
LED Color	Red
Casing Size	W=550, H=400, D=87 mm.
Case Material	Metal (Black Color)
Power Source	220 VAC 50/60 Hz
Count Input	1) Edge Trigger PNP/NPN (Transistor Input/ Sensor Input) 2) Relay Contact
Reset	Manual or Automatic (Programmable by Software)
Speed(Baud Rate)	9600 bps
Computer Interface	RS-485
Mounting	Hang Mounting

Monitoring & Control Software



Additional Features

- 1) Custom-made design display (process indicator)
- 2) Real time monitoring & planning
- 3) RS-485 Communication networking (up to 256 units)
- 4) Effective visual communication for management
- 5) Promote productivity schedule
- 6) Output alarm for signal tower
- 7) 31 Days plan programmable (by software)
- 8) Production alarm display (Optional)

Production Real Time Monitoring System

Production Management Concepts



Where To Install ?

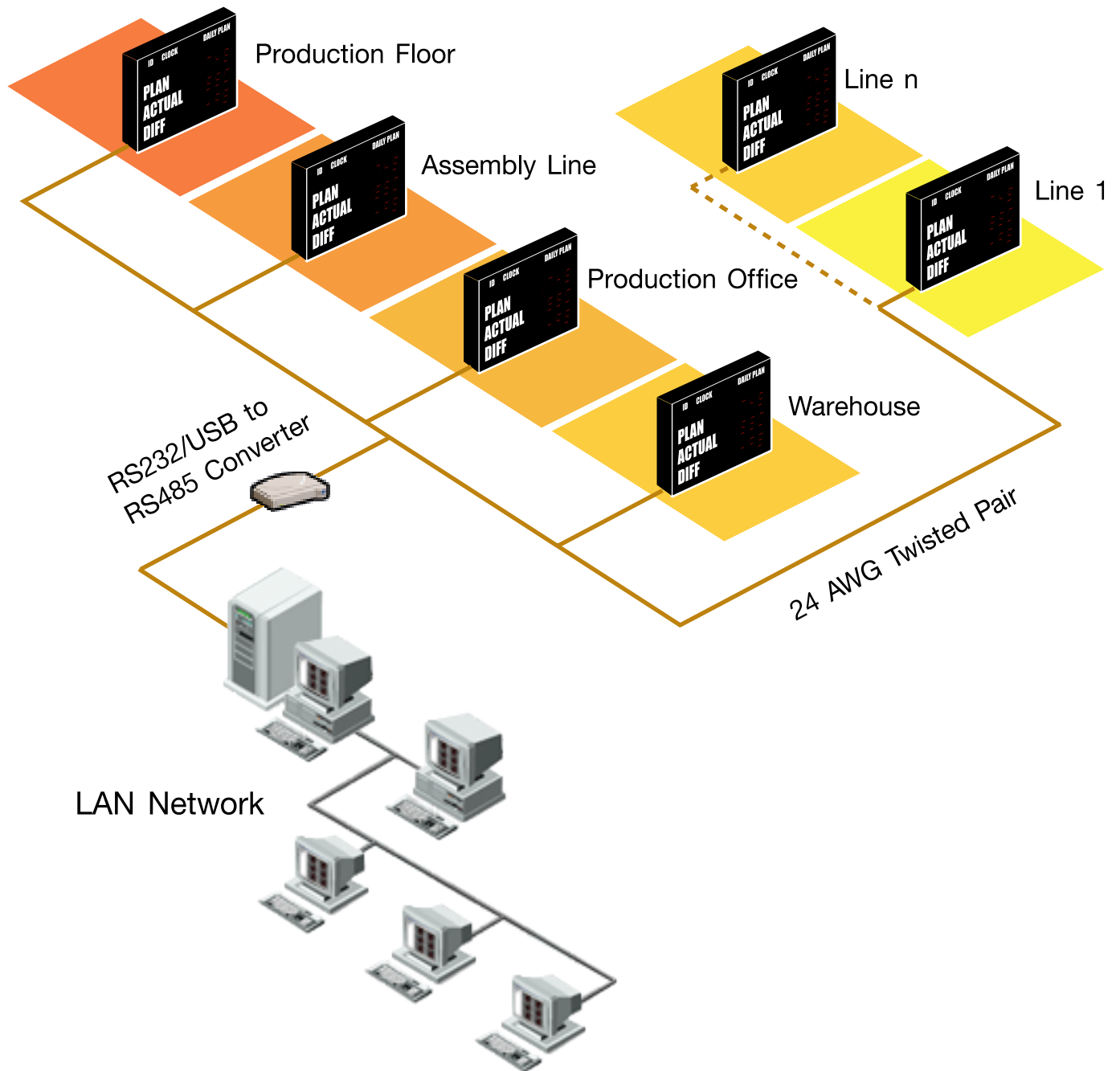


Who To Use ?



Production Real Time Monitoring System

Wiring Diagram



E-PRODUCTION VISUAL CONTROL BOARD MODEL STANDARD

MODEL : EC-VF-AK1
MODEL : EC-VF-AK2



(DIMENSION : W = 400 MM. X H = 360 MM.)

MODEL : EC-VF-BK1
MODEL : EC-VF-BK2



(DIMENSION : W = 550 MM. X H = 400 MM.)

MODEL : EC-VF-CK1
MODEL : EC-VF-CK2



(DIMENSION : W = 560 MM. X H = 510 MM.)

MODEL : EC-VF-DK1
MODEL : EC-VF-DK2



(DIMENSION : W = 550 MM. X H = 400 MM.)

MODEL : EC-VF-EK1
MODEL : EC-VF-EK2



(DIMENSION : W = 560 MM. X H = 510 MM.)

MODEL : EC-VF-GK1
MODEL : EC-VF-GK2



(DIMENSION : W = 560 MM. X H = 400 MM.)

REMARK

- STEEL BOX
- ALL CHARACTER ARE SCREEN OR PVC WHITE COLOR STICKER
- EC-VF-XX1 IS 1 SIDE DISPLAY (DEPTH : 80 MM.)
- EC-VF-XX2 IS 2 SIDE DISPLAY (DEPTH : 100 MM.)

Some of Customer Reference

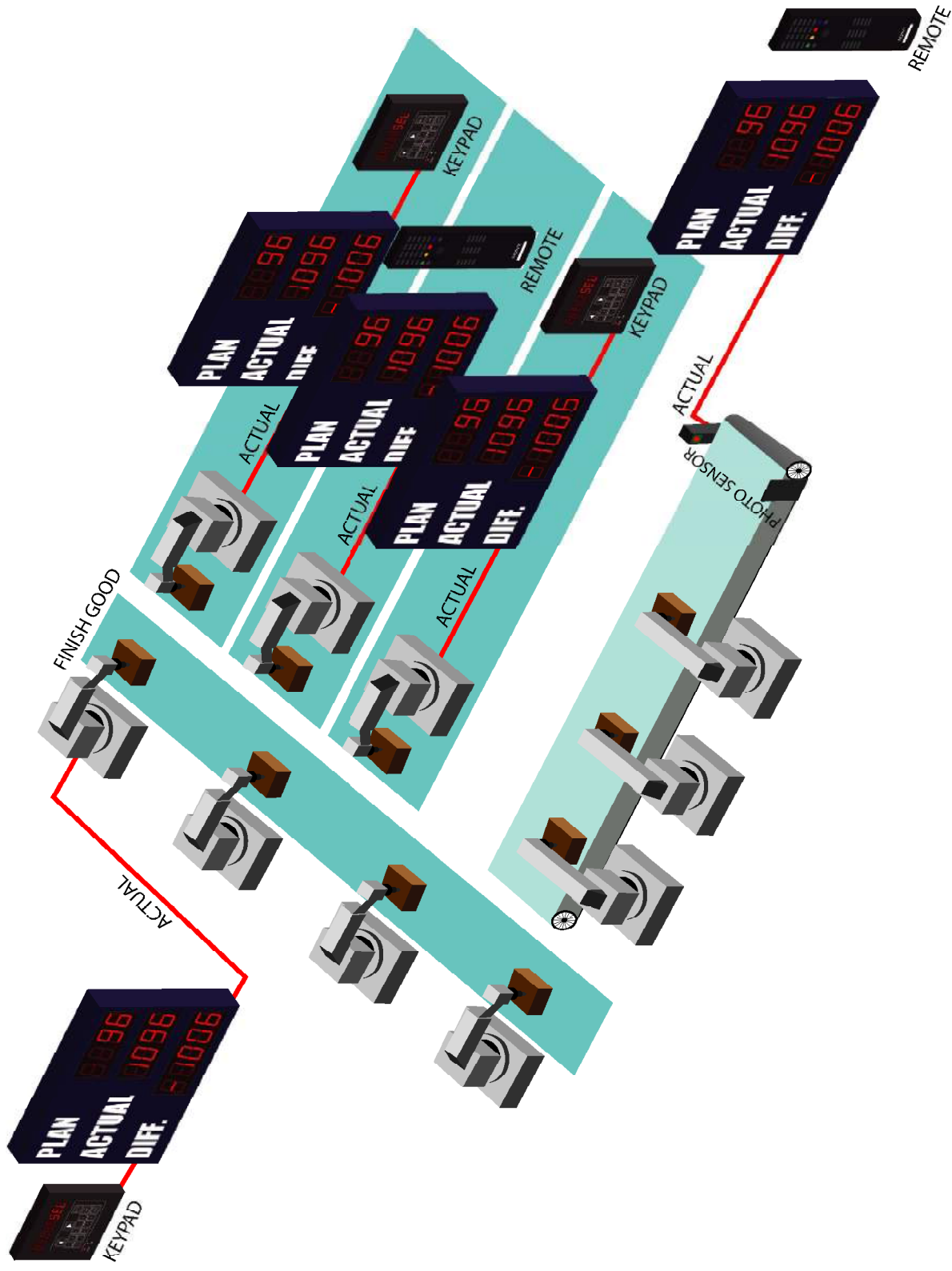
Domestic Customer Lists

- Toyota Motor(Thailand) Co., Ltd. (Samrong)
- Honda Automobile(Thailand) Co., Ltd.
- Hino Motors Manufacturing(Thailand) Ltd.
- Goodyear(Thailand) Public Co., Ltd.
- Hewlett Packard (Thailand) Co., Ltd.
- Kawasaki Motors(Thailand) Co., Ltd.
- Toshiba Carrier (Thailand) Co., Ltd.
- Mitsubishi Electric Automation (Thailand) Co., Ltd.
- AP Honda (Thailand) Co., Ltd.
- F-Tech MFG(Thailand) Co., Ltd.
- Usui International Corporation (Thailand) Ltd.
- Panus Assembly Co., Ltd.
- Bangkok Komatsu Co., Ltd.
- Sirivit-Stanley Co., Ltd.
- Transition Optical Co., Ltd.
- Apex Circuit (Thailand) Co., Ltd.
- Tokico (Thailand) Co., Ltd.
- Thai Ha Public Co., Ltd.
- Thai Engineering Products Co., Ltd.
- Schimmer Metal Co., Ltd.
- Ricoh Manufacturing (Thailand) Co., Ltd.
- Parker Hannifin (Thailand) Co., Ltd.
- Mattel Bangkok Co., Ltd.
- Mahle Engine Components (Thailand) Co., Ltd.
- Feltol Manufacturing Co., Ltd.
- Ecco (Thailand) Co., Ltd.
- Bangkok Diecasting And Injection Co., Ltd.
- Furukawa Automotive Systems (Thailand) Co., Ltd.
- TS-Tech(Thailand) Co., Ltd.
- Daikin Compressor Industries Ltd.
- Panasonic Battery(Thailand)Co., Ltd.
- Thai Storage Battery public Co., Ltd.
- KYB Steering (Thailand) Co., Ltd.
- Y-Tec Co., Ltd.
- CP Retailing and Marketing Co. Ltd
- Calsonic Kansei (Thailand) Co., Ltd.
- BSH Home Appliances Manufacturing Ltd.
- Thai Arrow Products Co., Ltd. (Bangplee)
- Thai Arrow Products Co., Ltd. (Bangpakong)
- Thai Arrow Products Co., Ltd. (Pitsanulok)
- IRC Co., Ltd.
- Yorozu Co., Ltd.
- TS Interseat Co., Ltd.
- Exedy (Thailand) Co., Ltd.
- Nawaloha Industries Co., Ltd.
- Aapico (Thailand) Co., Ltd.

Oversea Customer List

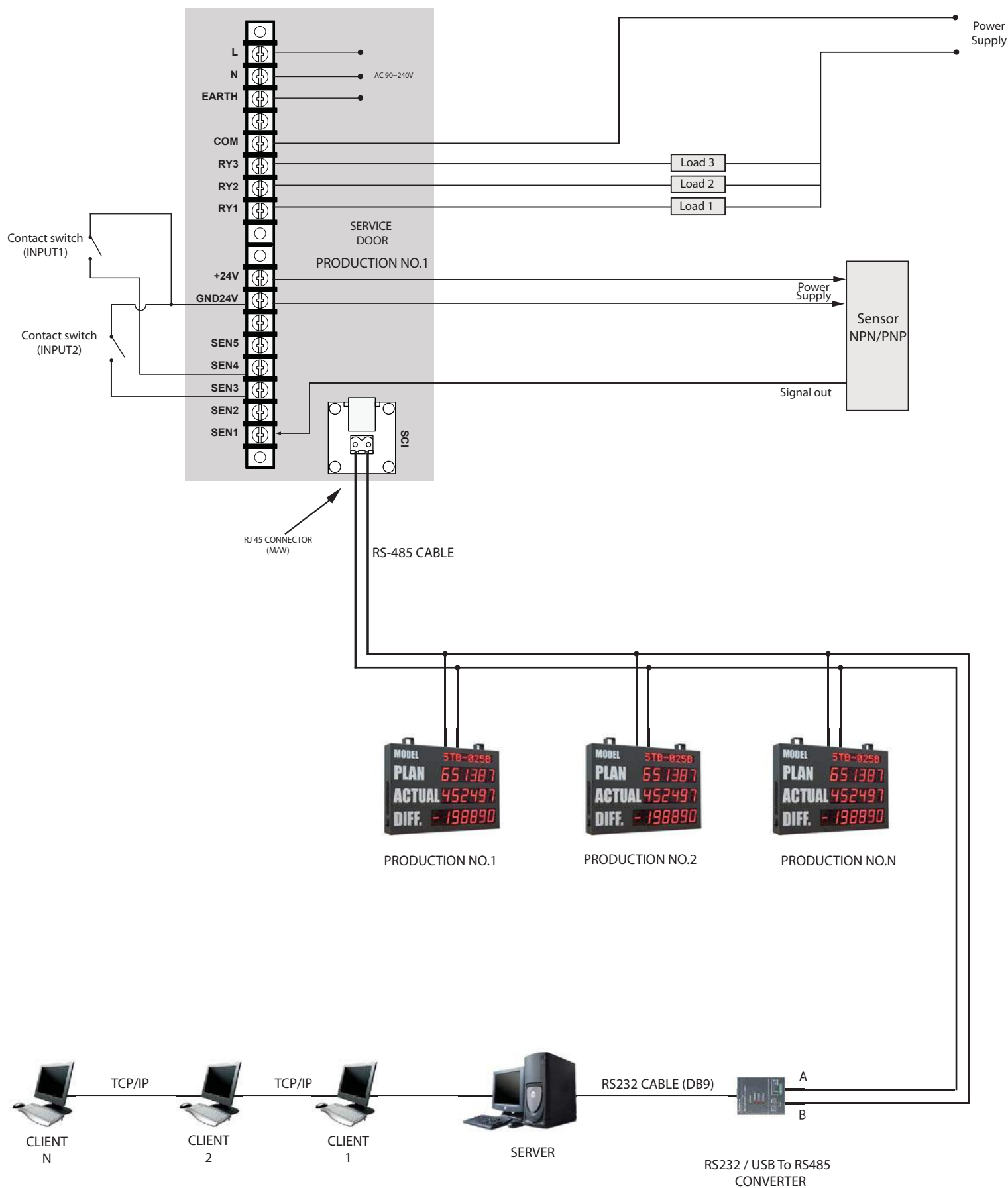
- Transitions Optical Philippines, Inc.
- Premier Instruments & Controls Limited(India)
- Electronica Eltec, S.A. de C.V. (Mexico)
- Glarey Davide Cas Villetes 31 (Italy)
- Keynes Controls Ltd. (United Kingdom)
- Daikin Compressor (C' Zech Republic)

Production Realtime Monitoring System (Stand-alone System)

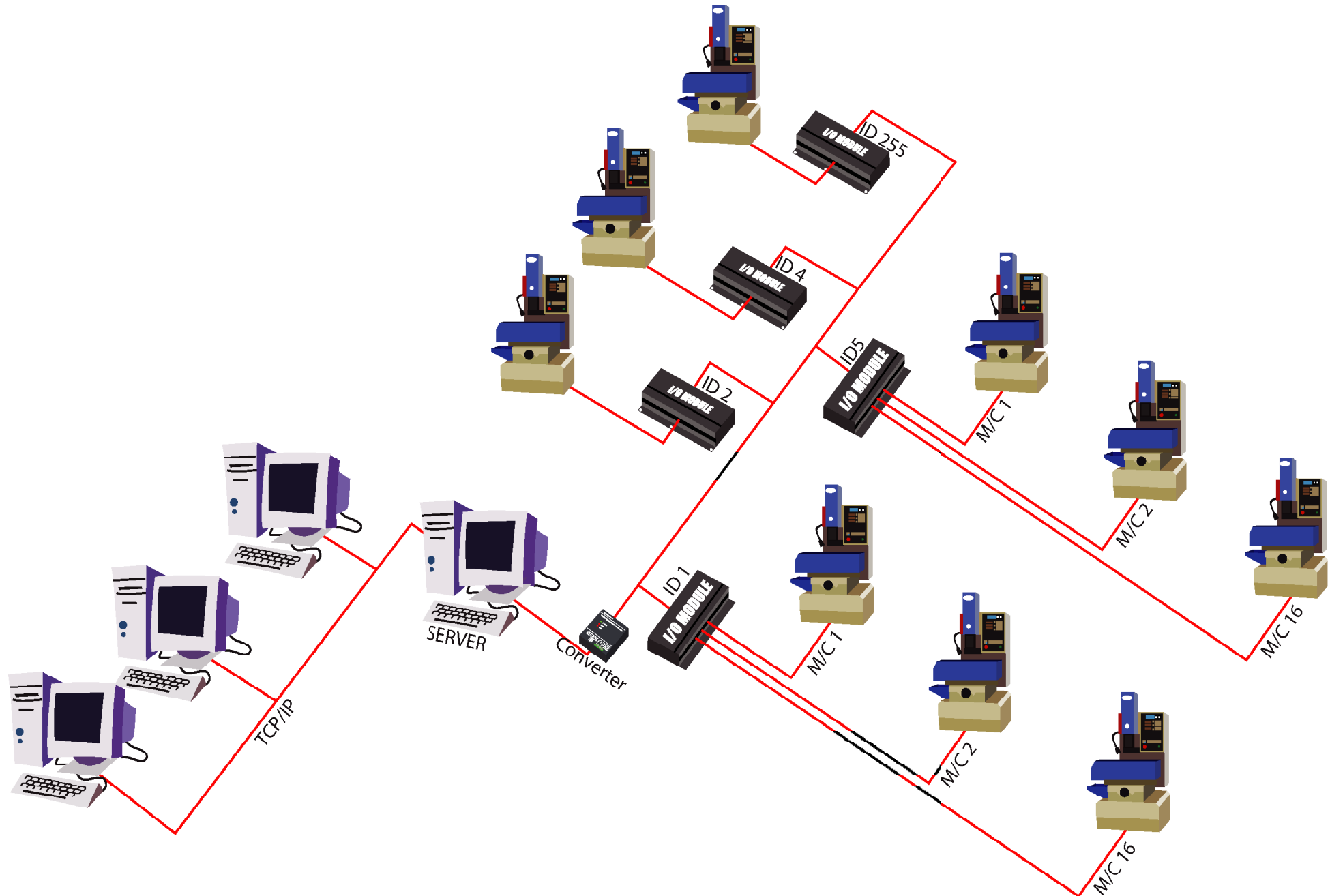


Wiring Diagram

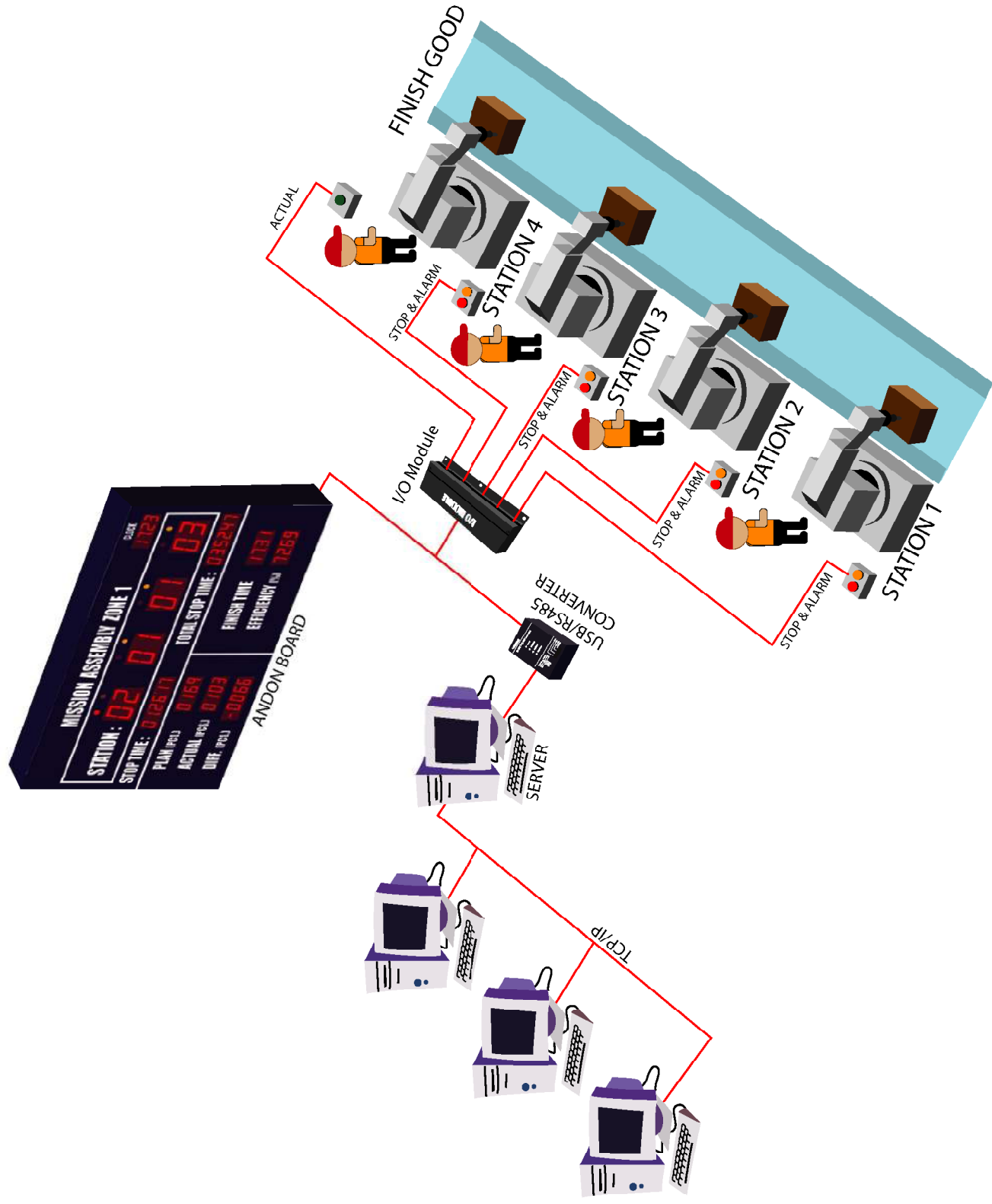
RS485 Communication for Production Board Network Solution



MACHINE STATUS / MACHINE LOSSTIME



ANDON MONITORING SYSTEM



Production Data to --> MS ACCESS to --> BOARD DISPLAY (Via Ethernet Communication) System.

by ELECTRONIC COMMERCE LTD.

1. Connect display board to LAN/Network system and Install our software to your computer, then use the software to config board IP address.
2. Our software will create a MS Access DB(Example : *Production_data.mdb*).
3. Input your production data(get from your SQL DB) to MS Access *Production_data.mdb*
4. Our software will send production data from MS Access *Production_data.mdb* to display on display board automatically.

Note* 1. In order to use this system, the board display(that you have received previously) need to replace with new controller module.

2. because our software will not get data form your SQL database directly, So we will use MS Access DB(*Production_data.mdb*) to be a middleware. The customer need to develop an applications in order to get production data from SQL DB and put them in to MS Access *Production_data.mdb*.

