Energy Consumption Monitoring System
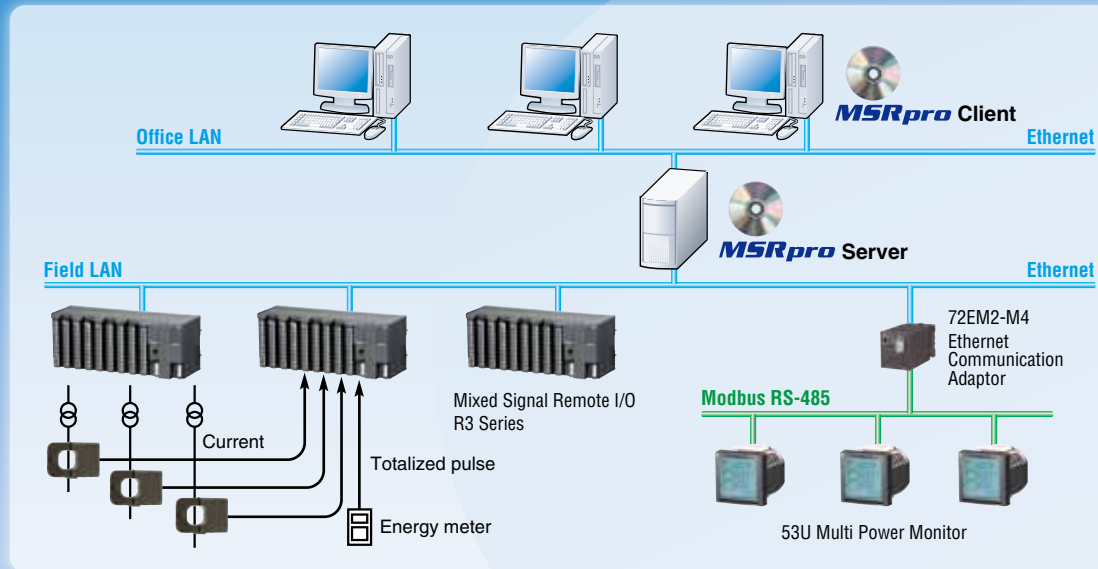
❚ **Minimum down time for installation of clamp-on current sensors; CT installation or rewiring is not required**

❚ **Existing office LAN can be used***

Office LAN

MSRpro Client

Ethernet

MSRpro Server

Field LAN

Ethernet

72EM2-M4
Ethernet
Communication
Adaptor

Modbus RS-485

Mixed Signal Remote I/O
R3 Series

Current

Totalized pulse

Energy meter

53U Multi Power Monitor

❚ Easy-to-Install Current Sensor

✔ **Easy installation**
✔ **Wide selections**

Clamp-on current sensors are easy to install compared to current transformers (CT) which usually need extra modifications for the power distribution panel.

**Clamp-on Current Sensor
CLS Series**

❚ PC Recorder Software

MSRpro and PC Recorder are user-friendly monitoring and recording software programs.

❚ I/O via Ethernet Network

With remote I/O installed in an unused space inside the power distribution panel, data can be collected effectively via the field LAN.

✔ **Existing office LAN can be used.***

✔ **Wide range of mixed sensor signals can be monitored.**

✔ **Economical solution by choosing only necessary I/O function modules.**

Power Monitoring Modules from R3 Series
• AC current input module
• Zero-phase current (ZCT) input module
• AC voltage input module
• AC power input module
• Totalized pulse input module
Temperature, DC and other sensor signal inputs are also available.

*Use of dedicated field LAN for the remote I/O is recommended.